

*California Department of Transportation  
Division of Maintenance*

*Structure Maintenance and Investigations*

---

**B**<sub>RIDGE</sub>

**I**<sub>NSPECTION</sub>

**R**<sub>ECORDS</sub>

**I**<sub>NFORMATION</sub>

**S**<sub>YSTEM</sub>

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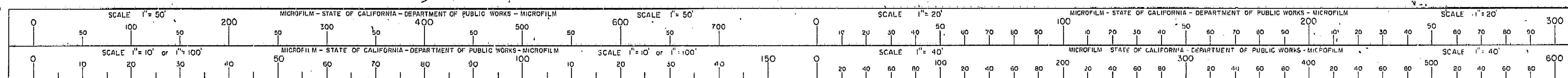
AS BUILT PLANS  
Contract No. 62-6713C3  
Date Completed  
Document No. 60001062

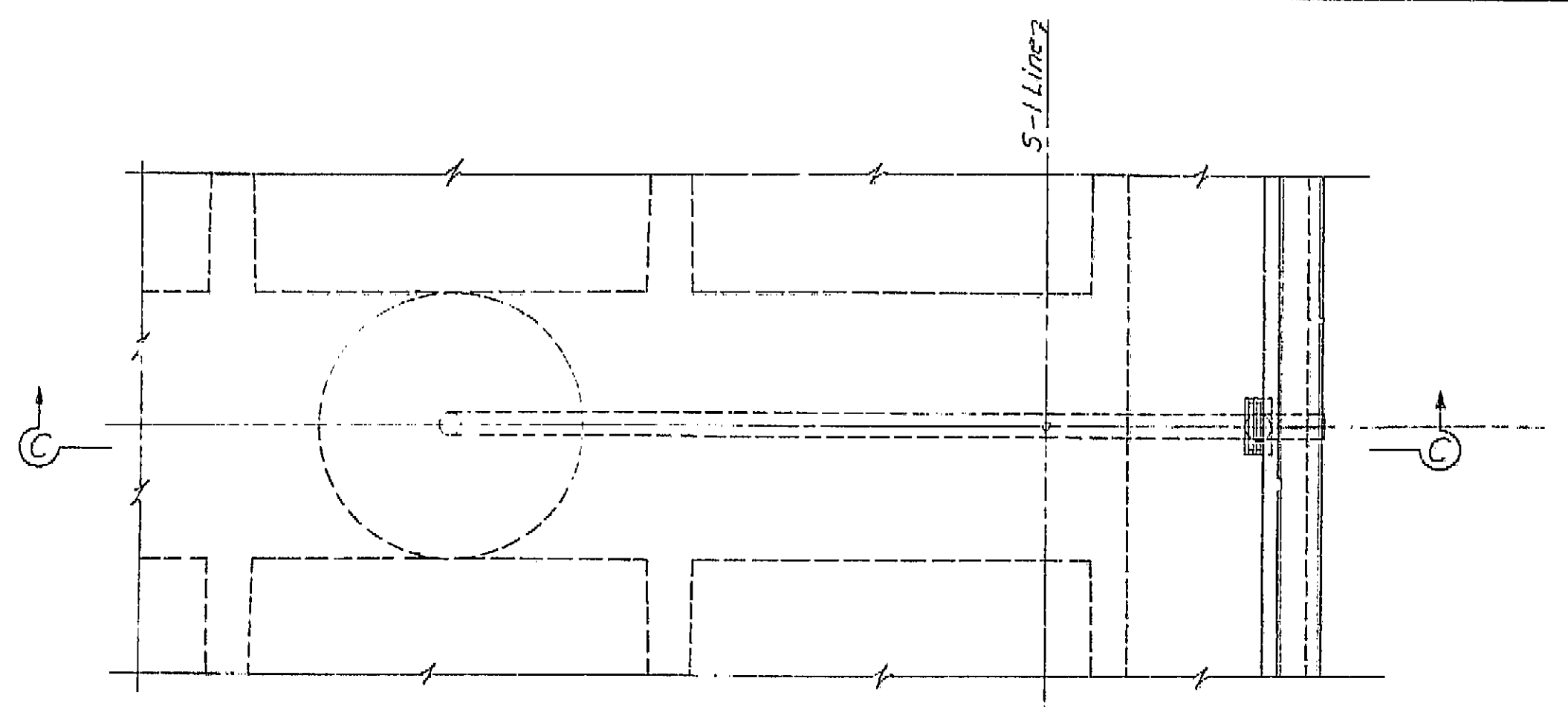
BRIDGE DEPARTMENT	
DESIGN SECTION 2	
Project Designer: [Signature]	
Chief Designer: [Signature]	
DESIGN	By: P.J. Juroch 9/61
DETAILS	By: H.N. Doherty 10/60
QUANTITIES	By: H.N. Doherty 4/61
SPECIFICATIONS	By: [Signature]
Approval Recommended by: [Signature]	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
ROUTE 99 ON RAMP O.C.	
GRID OF DECK ELEVATIONS	
SCALE 1"=20'	BRIDGE #2-216
FILE	DRAWING C-42216-2

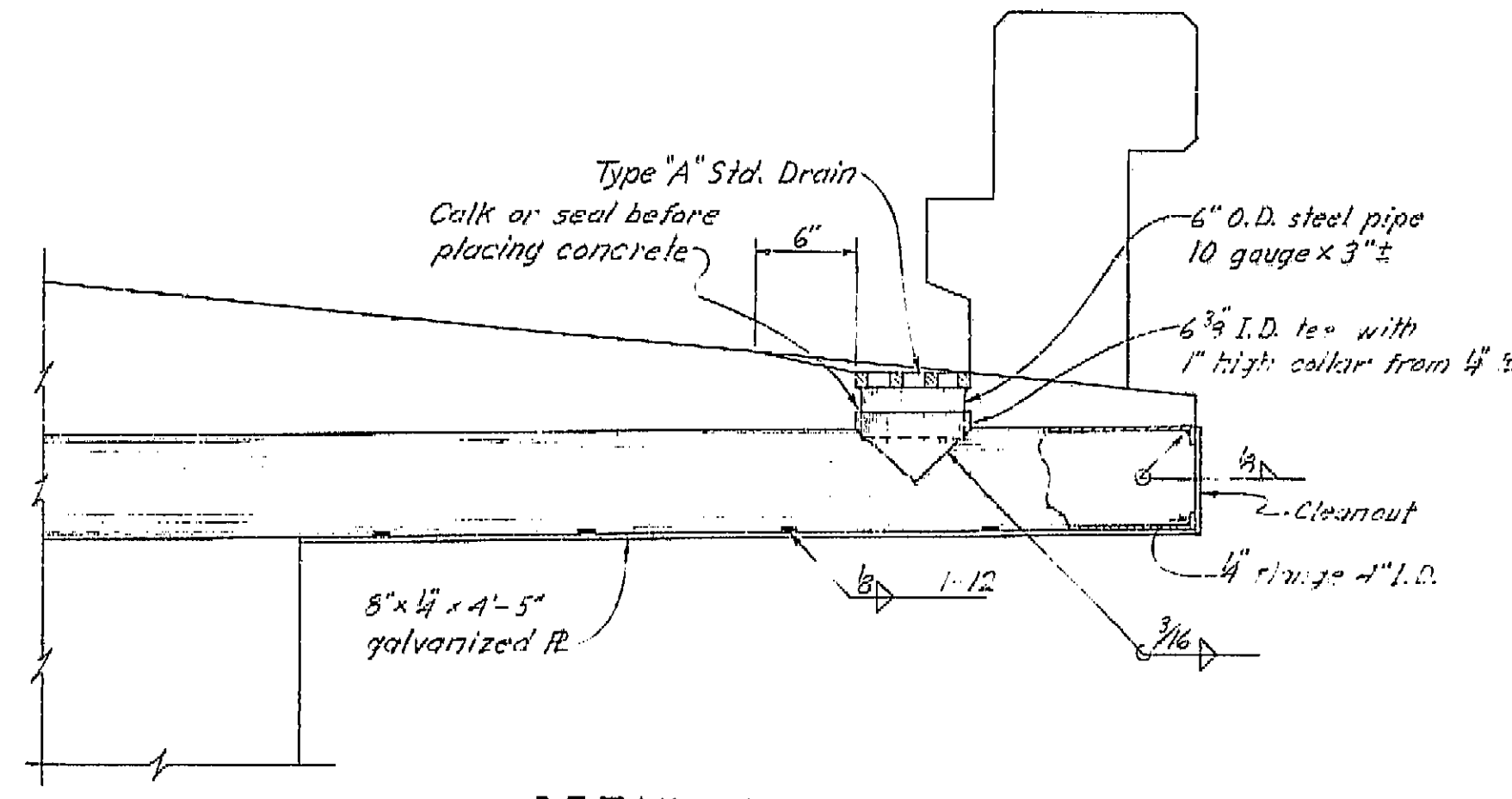
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-62 SIGNATURE [Signature] TITLE [Title]

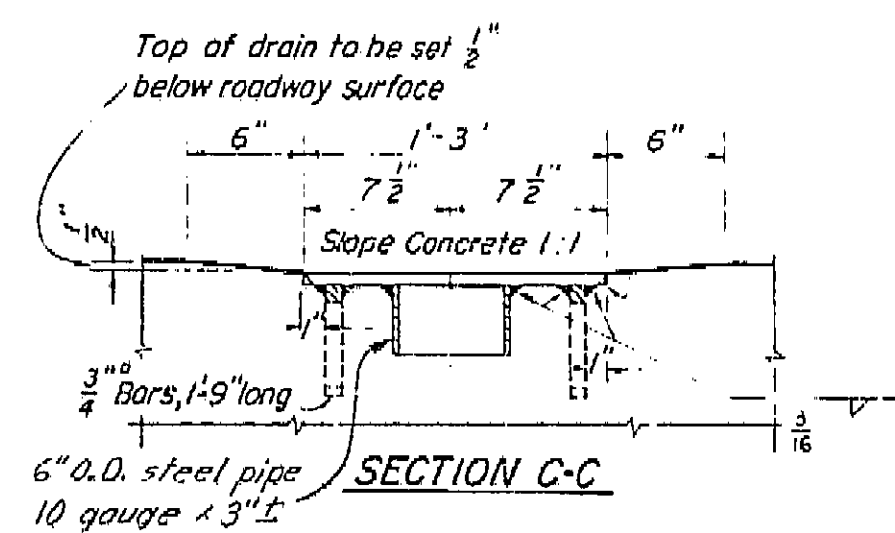




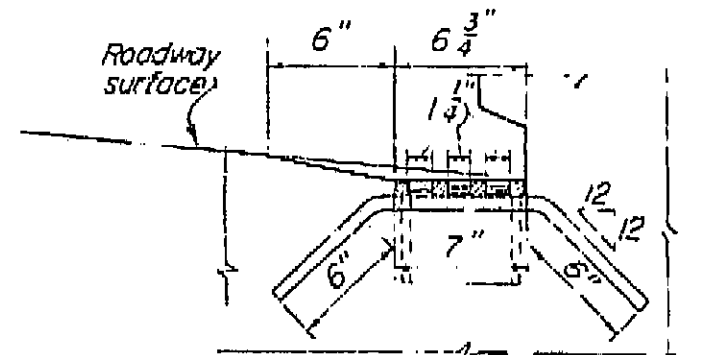
PLAN  
 3 3/8\"/>



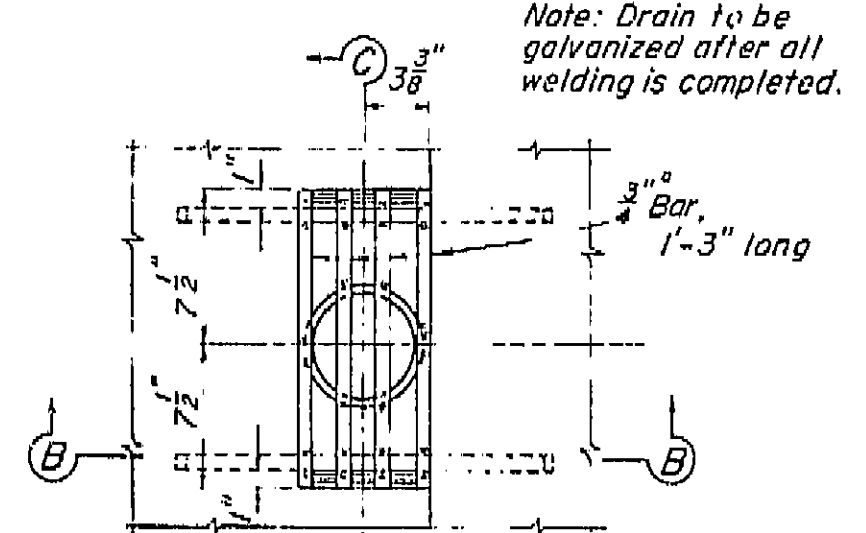
DETAIL A  
 1 1/2\"/>



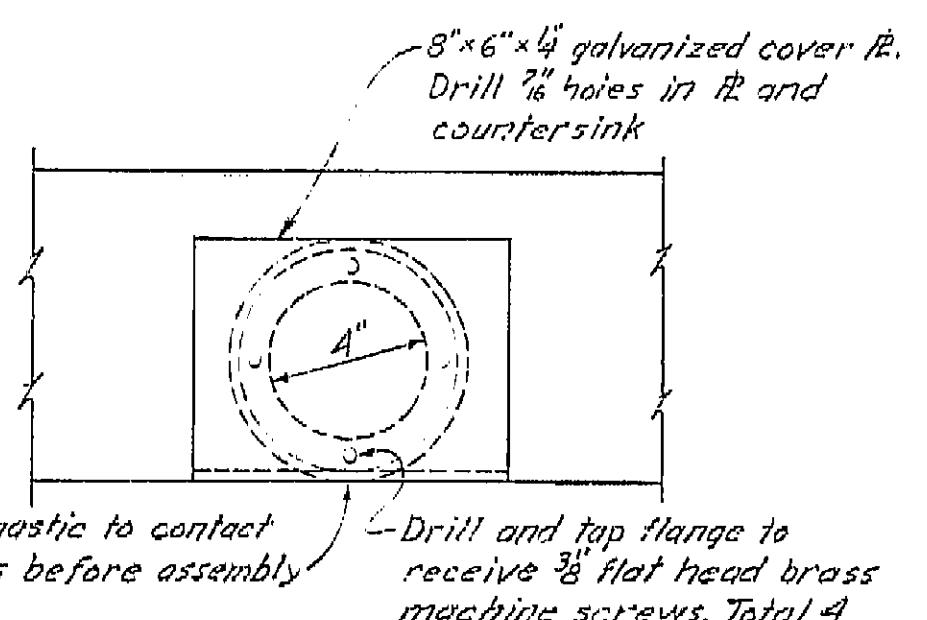
SECTION C-C



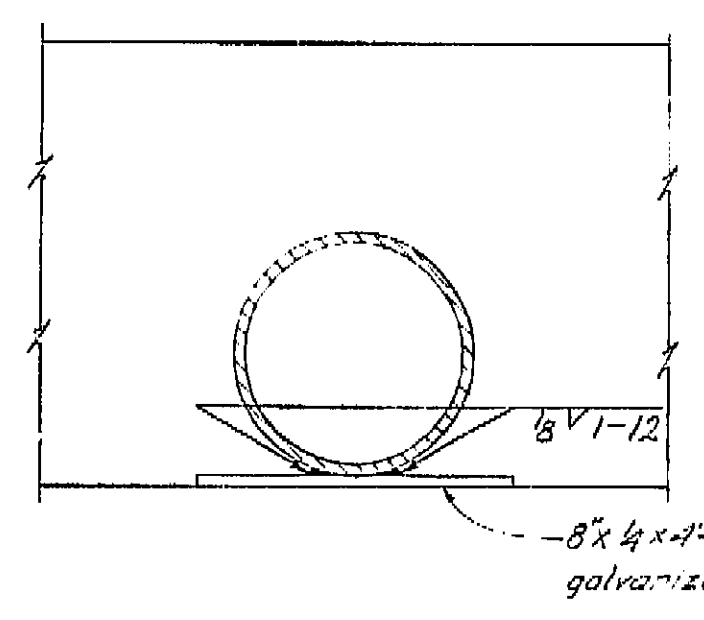
SECTION B-B



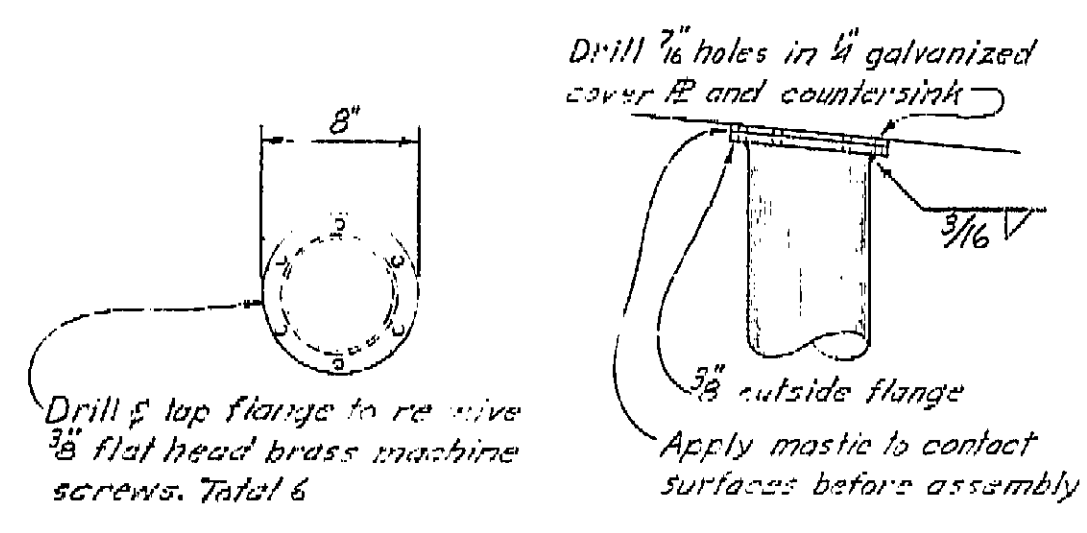
PLAN  
 DRAIN DETAIL TYPE "A"  
 3 Required  
 Scale 1 1/2\"/>



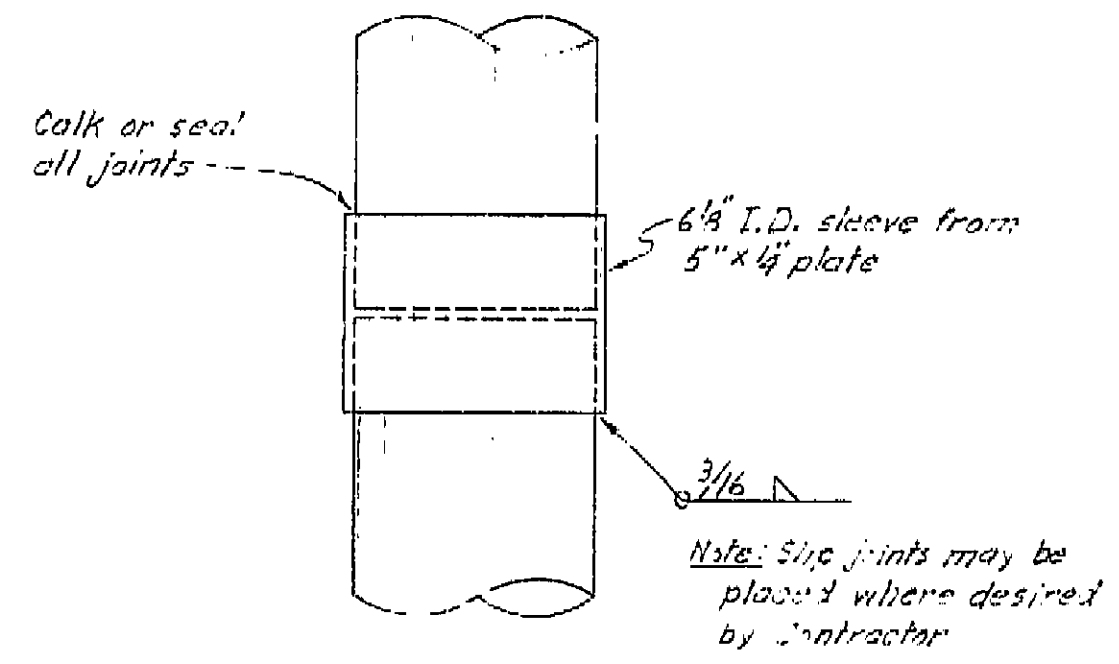
ELEVATION A-A  
 3\"/>



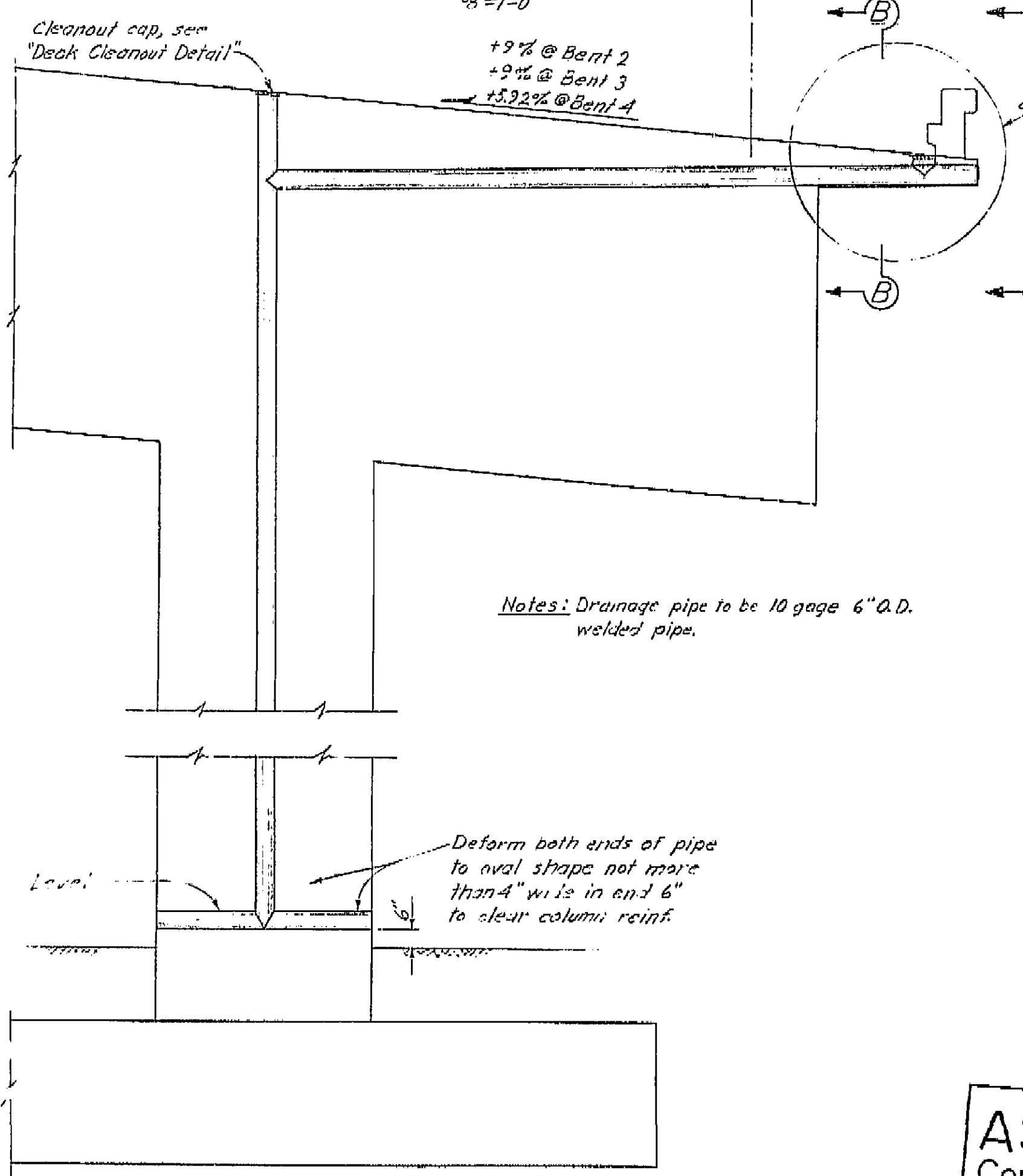
SECTION B-B  
 3\"/>



DECK CLEANOUT DETAIL  
 1 1/2\"/>



SLIP JOINT



SECTION C-C  
 3 3/8\"/>

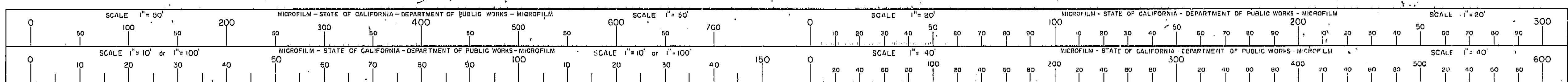
Notes: Drainage pipe to be 10 gage 6\"/>

Deform both ends of pipe to oval shape not more than 4\"/>

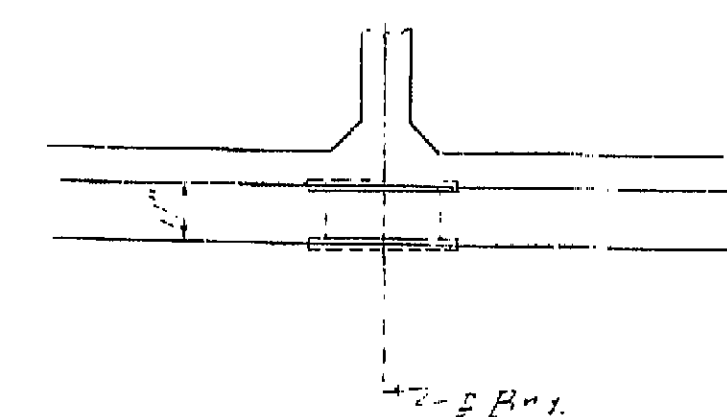
AS BUILT PLANS  
 Contract No. 62-6T13C3  
 Date Completed  
 Document No. 60001062

BRIDGE DEPARTMENT *** DESIGN SECTION *** Project Designer: <i>Paul J. Heston</i> Chief Designer: <i>Paul J. Heston</i>		2	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN: <i>H.M.Dahl</i> 3/61 DETAILS: <i>H.M.Dahl</i> 3/61 QUANTITIES: <i>H.M.Dahl</i> 3/61 SPECIFICATIONS: <i>H.M.Dahl</i> 3/61			ROUTE 99 ON RAMP O.C.	
Approved Recommended by: <i>B. J. Heston</i> Checked by: <i>B. J. Heston</i>		DRAINAGE DETAILS		
Scale: As Noted		BRIDGE 42-216	FILE	DRAWING C-42216-16

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 1-12-62 SIGNATURE *Paul J. Heston* TITLE *Chief Designer*



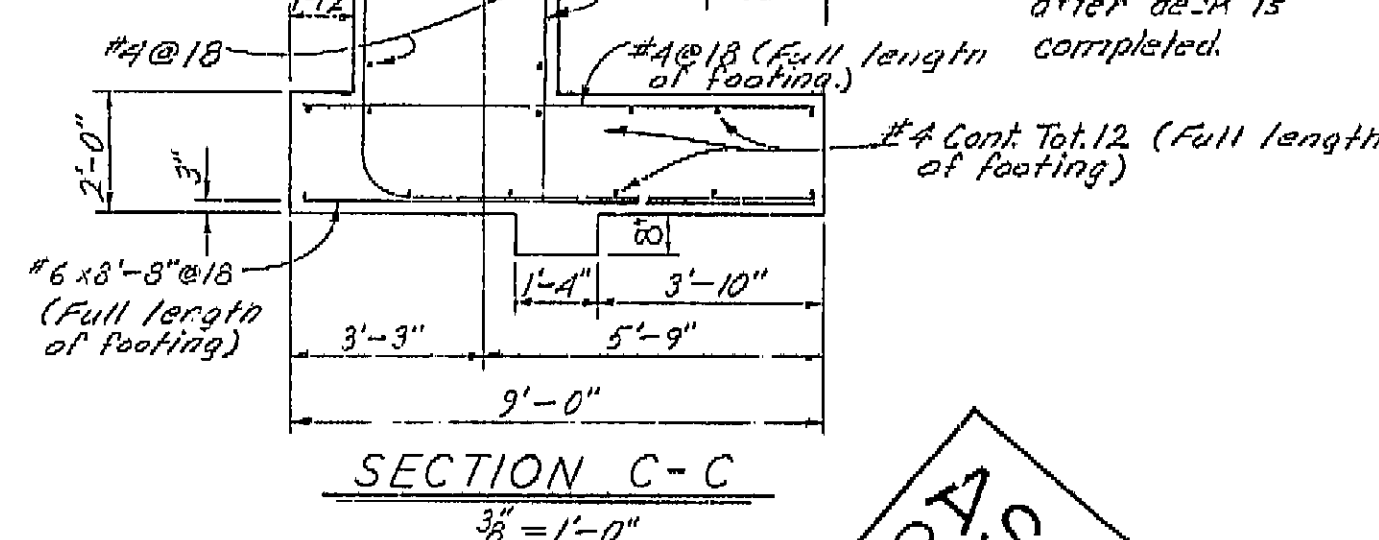




DETAIL Z

DETAIL "X"  
3" = 1'-0"

9" RUBBER WATERSTOP



SECTION C-C

$3\frac{1}{2}'' = 1'-0''$

2 Brgs.

1'-3" 1'-0" 1'-15"

16"

Abut. reinf.

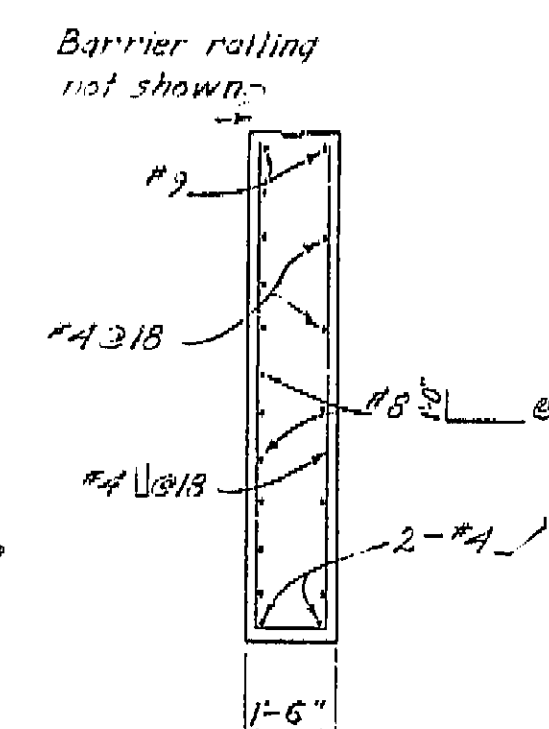
#6  $4\frac{1}{2}''$  @ 18"

AS BUILT PLANS

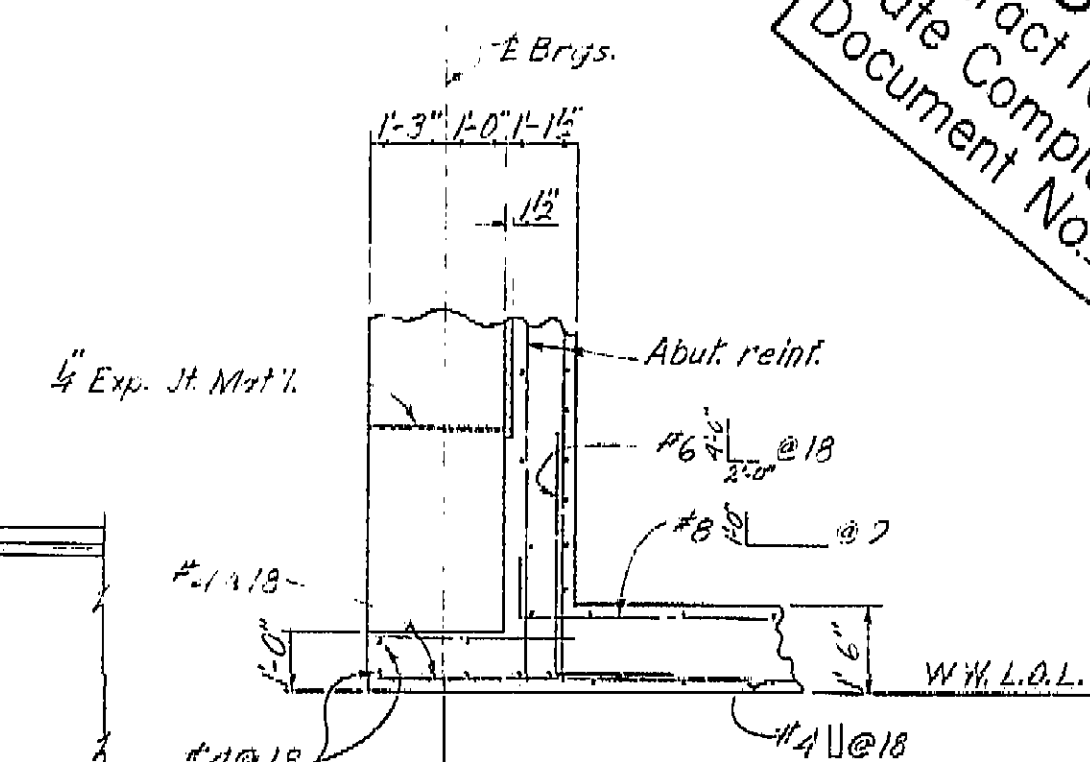
Contract No. 62-6T13C3

Date Completed

Document No. 60001062



SECTION L-L  
3" = 1'-0"



SECTION M-M  
32" = 1'-0"

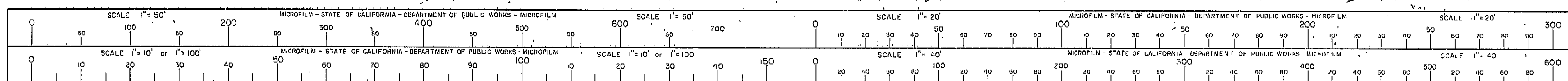
Except As Noted	BRIDGE 12-216	FILE	DRAWING C-12216-5
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Discarded prints bearing earlier numbers

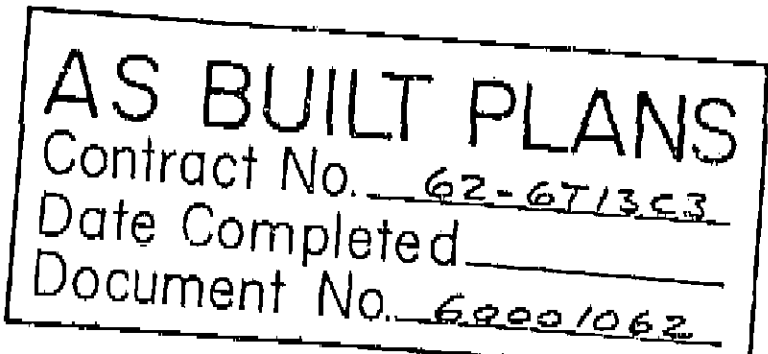
[illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-82 SIGNATURE [Signature] TITLE [Title]





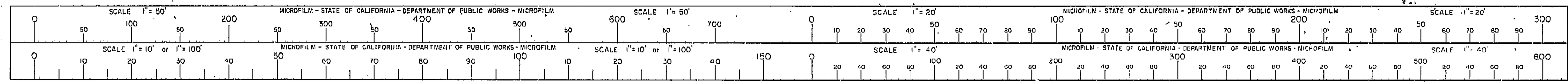


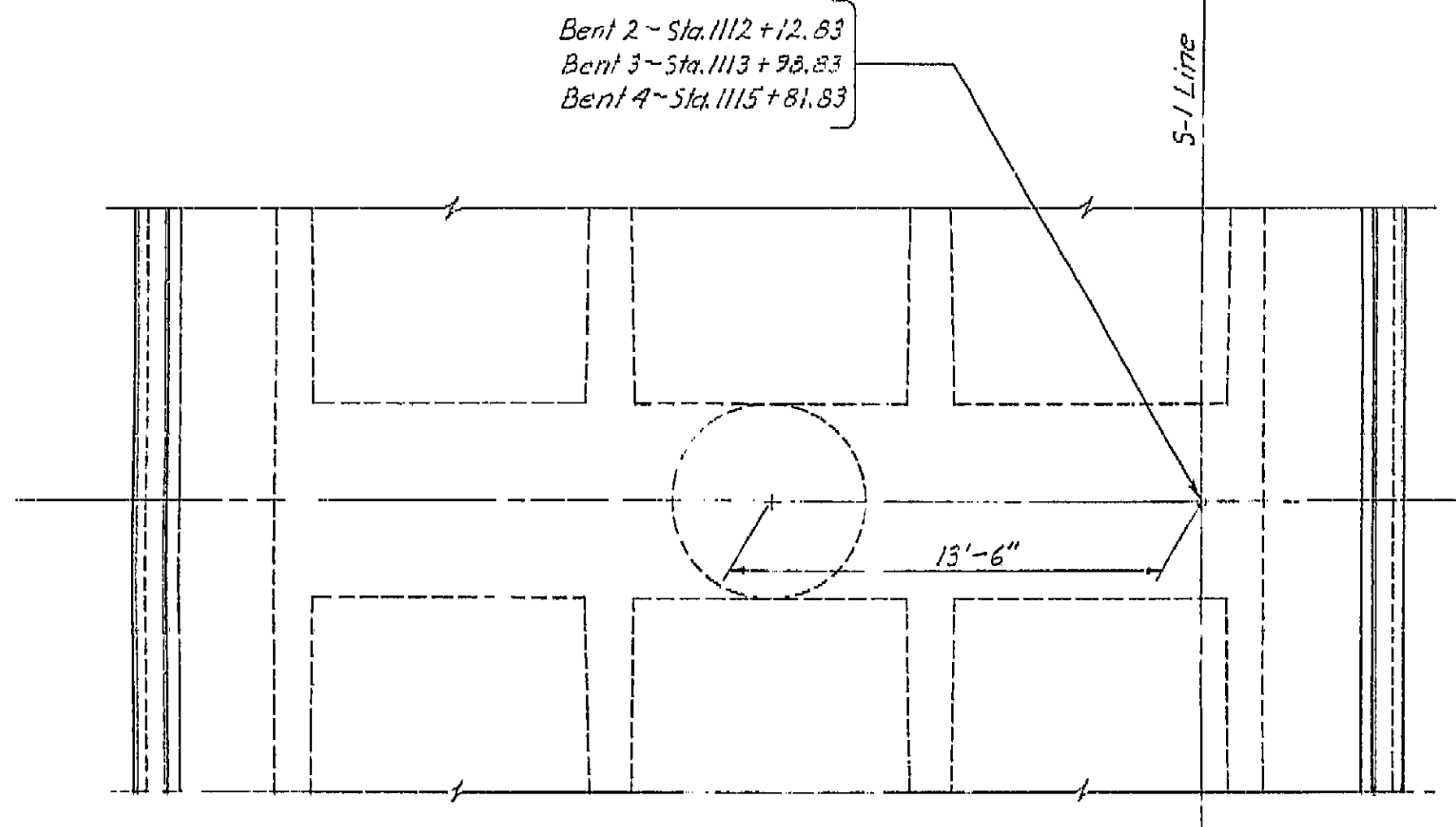
BRIDGE DEPARTMENT		DESIGN SECTION		2	
Project Designer: <i>[Signature]</i>					
Chief Designer: <i>[Signature]</i>					
DESIGN	31	<i>PJ Durach</i>	<i>3/61</i>	Checked	<i>D. SHELTON 3/61</i>
DETAILS	31	<i>H.N. Dahl</i>	<i>3/61</i>	Checked	<i>D. SHELTON 3/61</i>
QUANTITIES	31	<i>H.N. Dahl</i>	<i>3/61</i>	Checked	<i>D. SHELTON 3/61</i>
SPECIFICATIONS	31			Drawn and Titled	
Approval Recommended by <i>[Signature]</i>				Checked by License No. <i>5432</i>	
Engineer's Stamp					

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
ROUTE <sup>99</sup> <del>4</del> ON RAMP O.C.			
ABUTMENT DETAILS NO 1			
Except As Noted SCALE $\frac{3}{8}" = 1'-0"$	BRIDGE 12-216	FILE	DRAWING C 42216-4

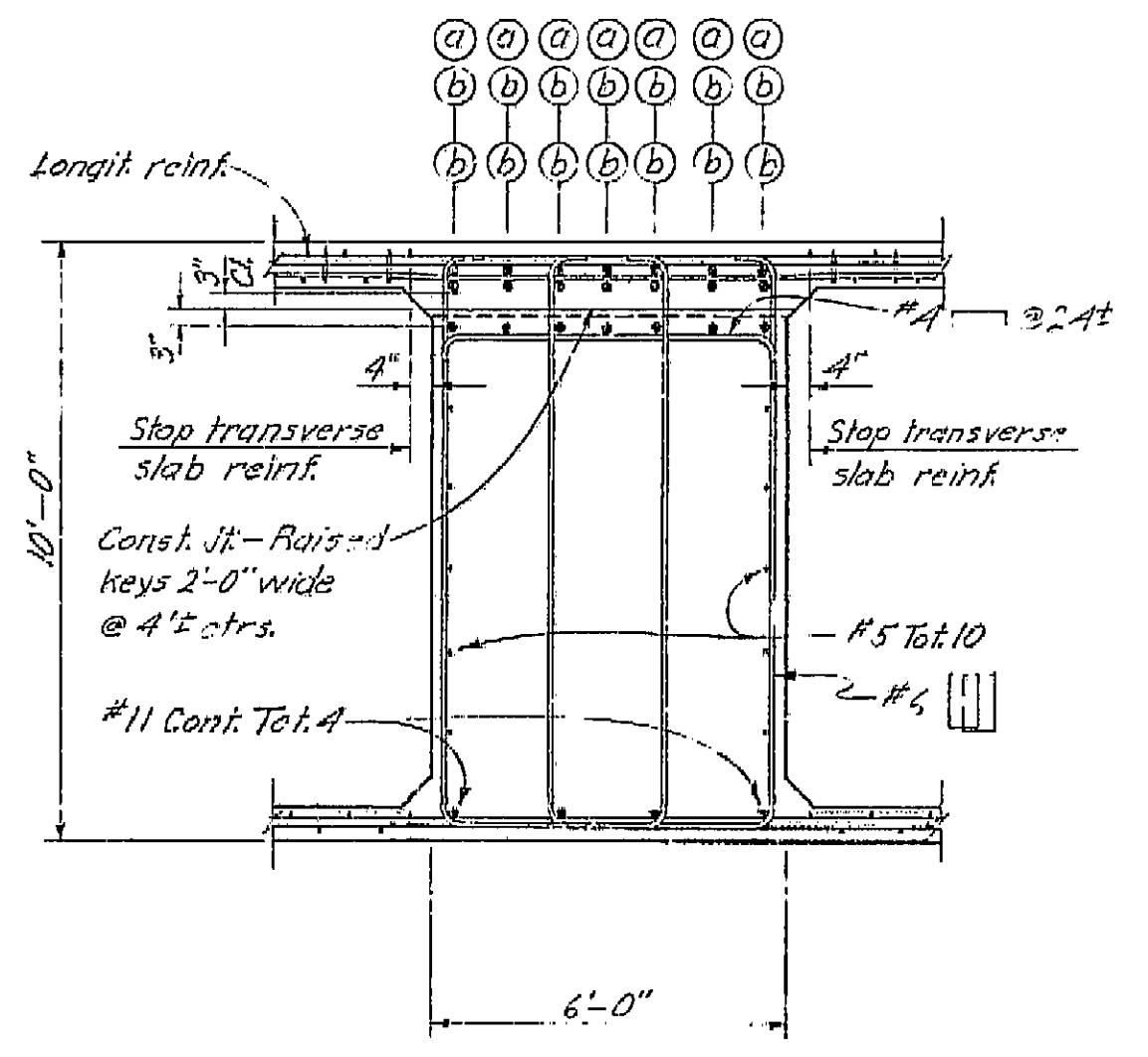
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-63 SIGNATURE [Signature] TITLE [Title]

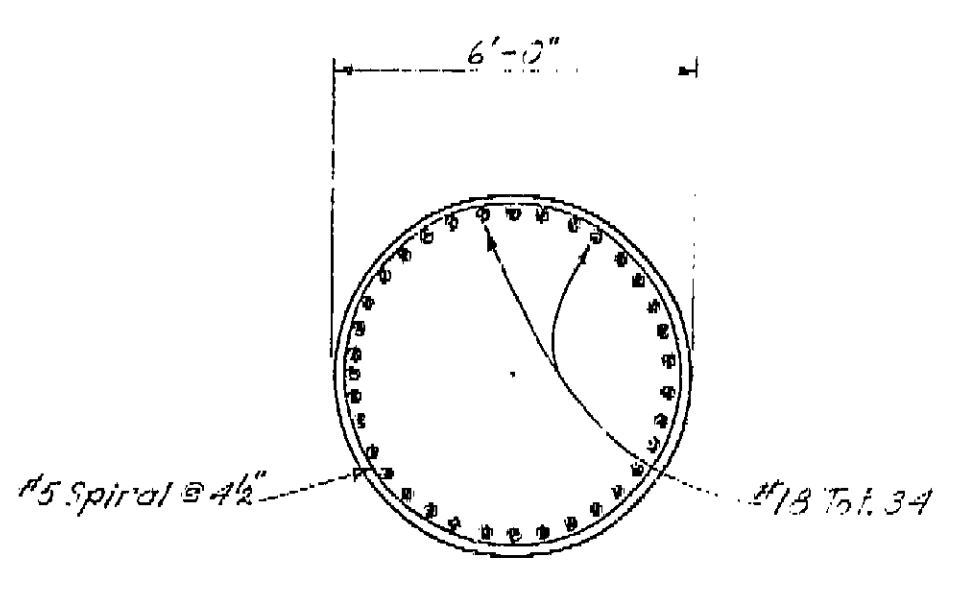




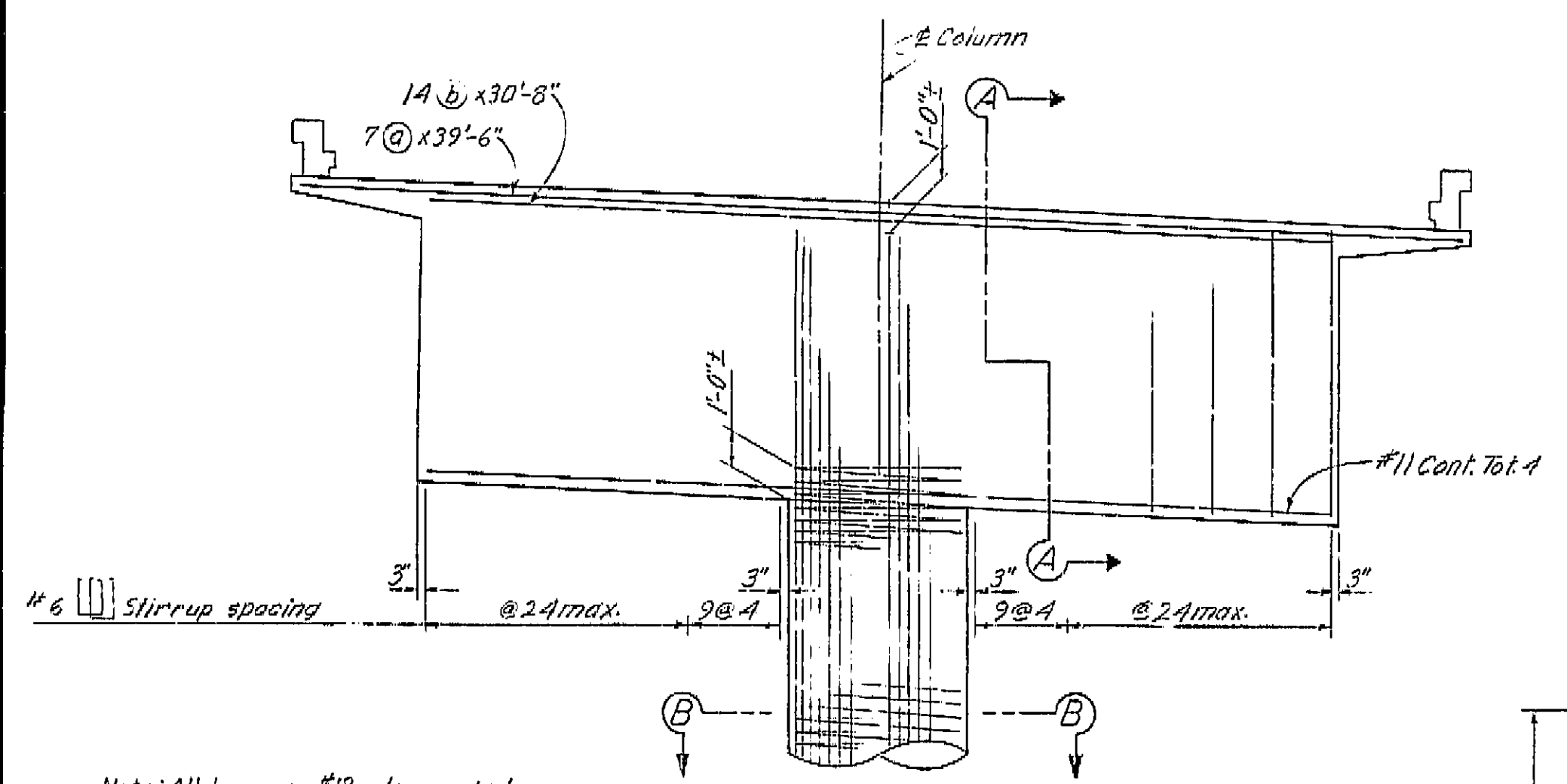
PLAN  
1/4" = 1'-0"



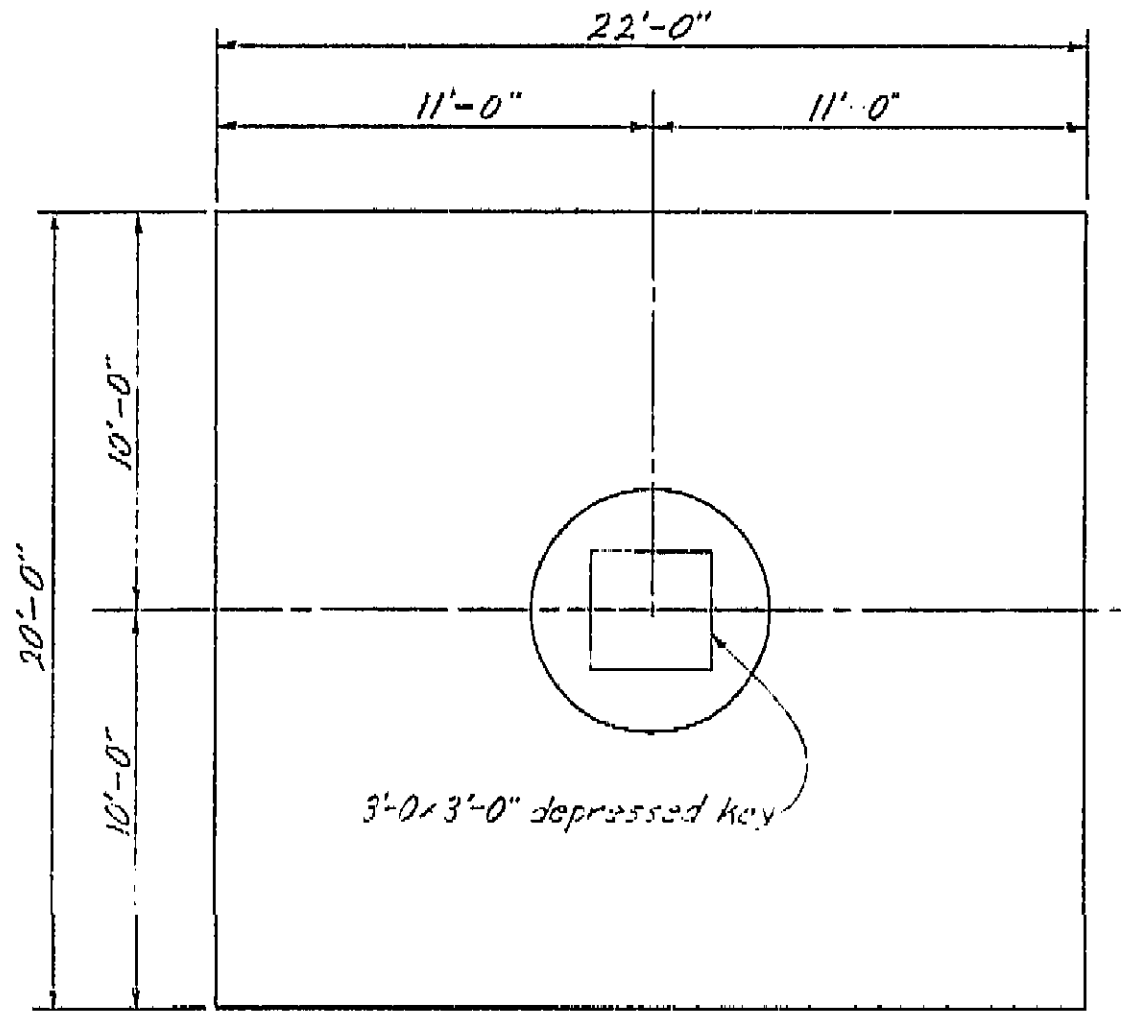
SECTION A-A  
3/8" = 1'-0"



SECTION B-B  
3/8" = 1'-0"

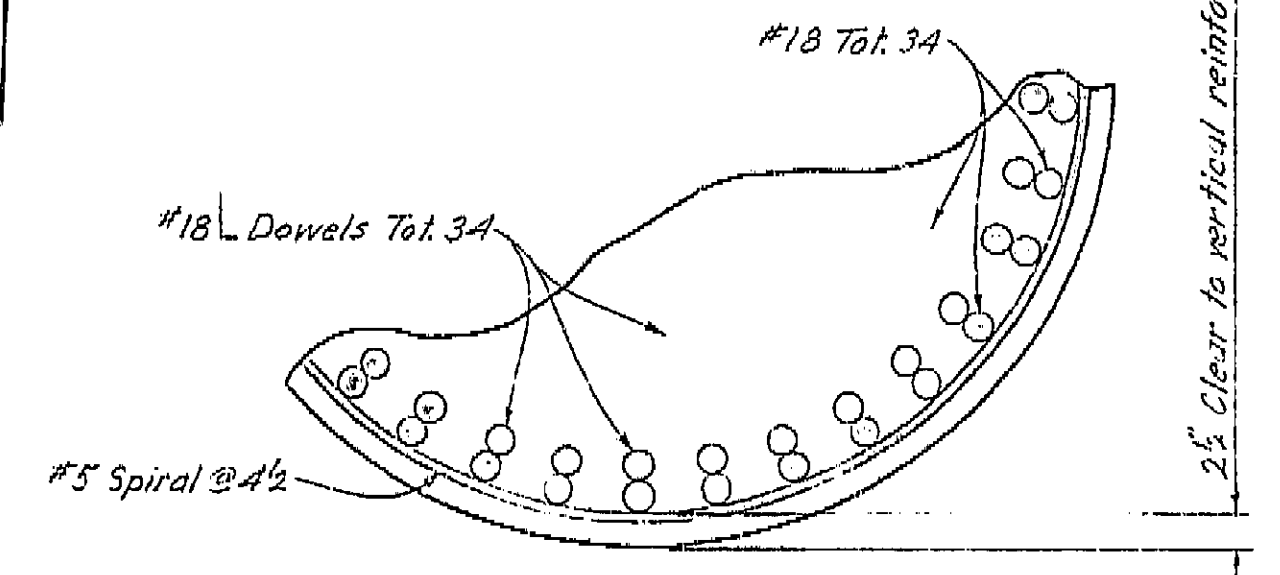


ELEVATION  
1/4" = 1'-0"



TYPICAL FOOTING PLAN  
1/4" = 1'-0"

AS BUILT PLANS  
Contract No. 62-6713C3  
Date Completed  
Document No. 60001062



PART SECTION K-K  
1" = 1'-0"

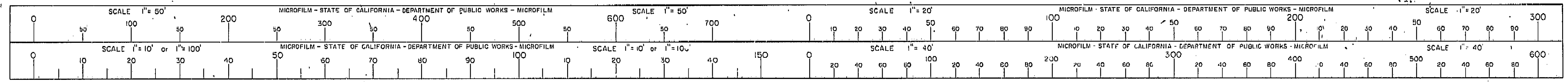
Note: All bars are #13 unless noted otherwise. Numbers at ends of bars indicate distance in feet from column.

BRIDGE DEPARTMENT			
DESIGN SECTION			
Project Designer: <i>[Signature]</i>			
Chief Designer: <i>[Signature]</i>			
DESIGN	By: <i>[Signature]</i>	Checked: <i>[Signature]</i>	2
DETAILS	By: <i>[Signature]</i>	Checked: <i>[Signature]</i>	
QUANTITIES	By: <i>[Signature]</i>	Checked: <i>[Signature]</i>	
SPECIFICATIONS	By: <i>[Signature]</i>	Checked: <i>[Signature]</i>	
Approval Recommended by: <i>[Signature]</i>			

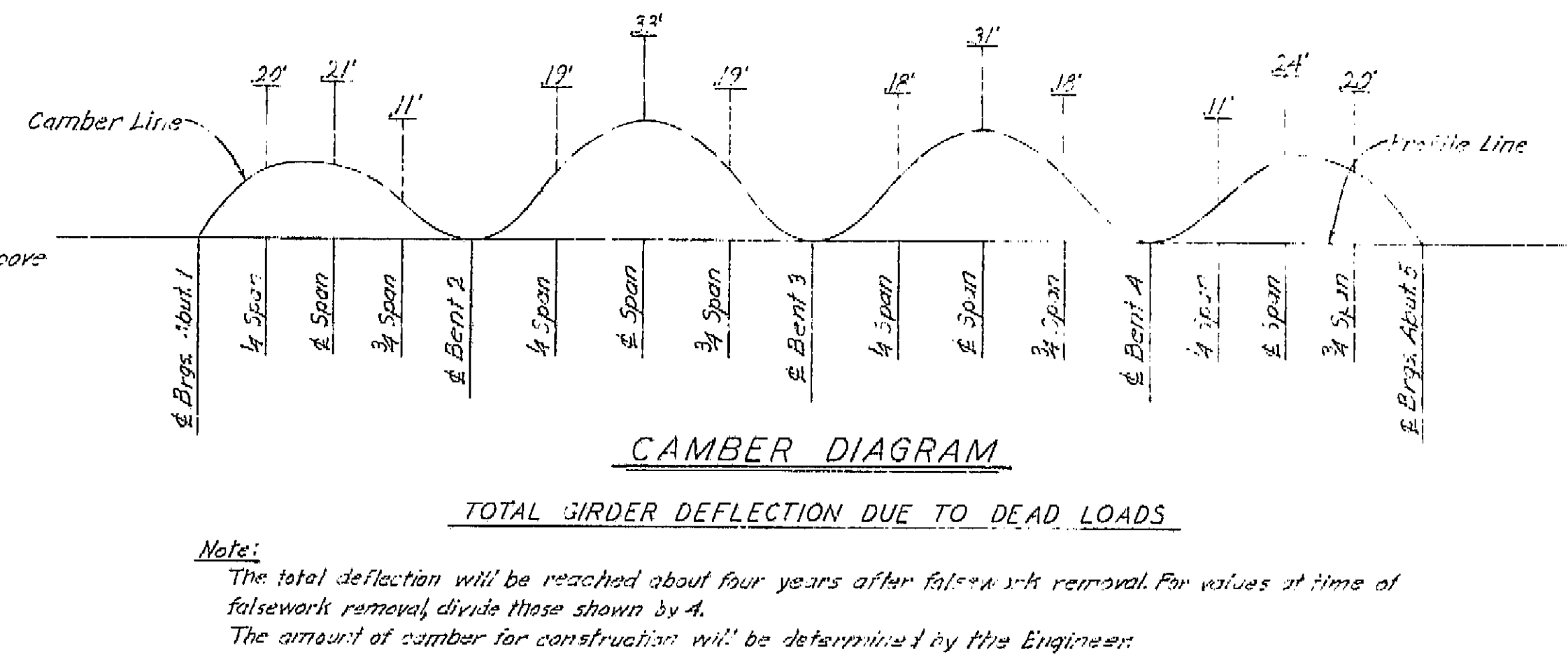
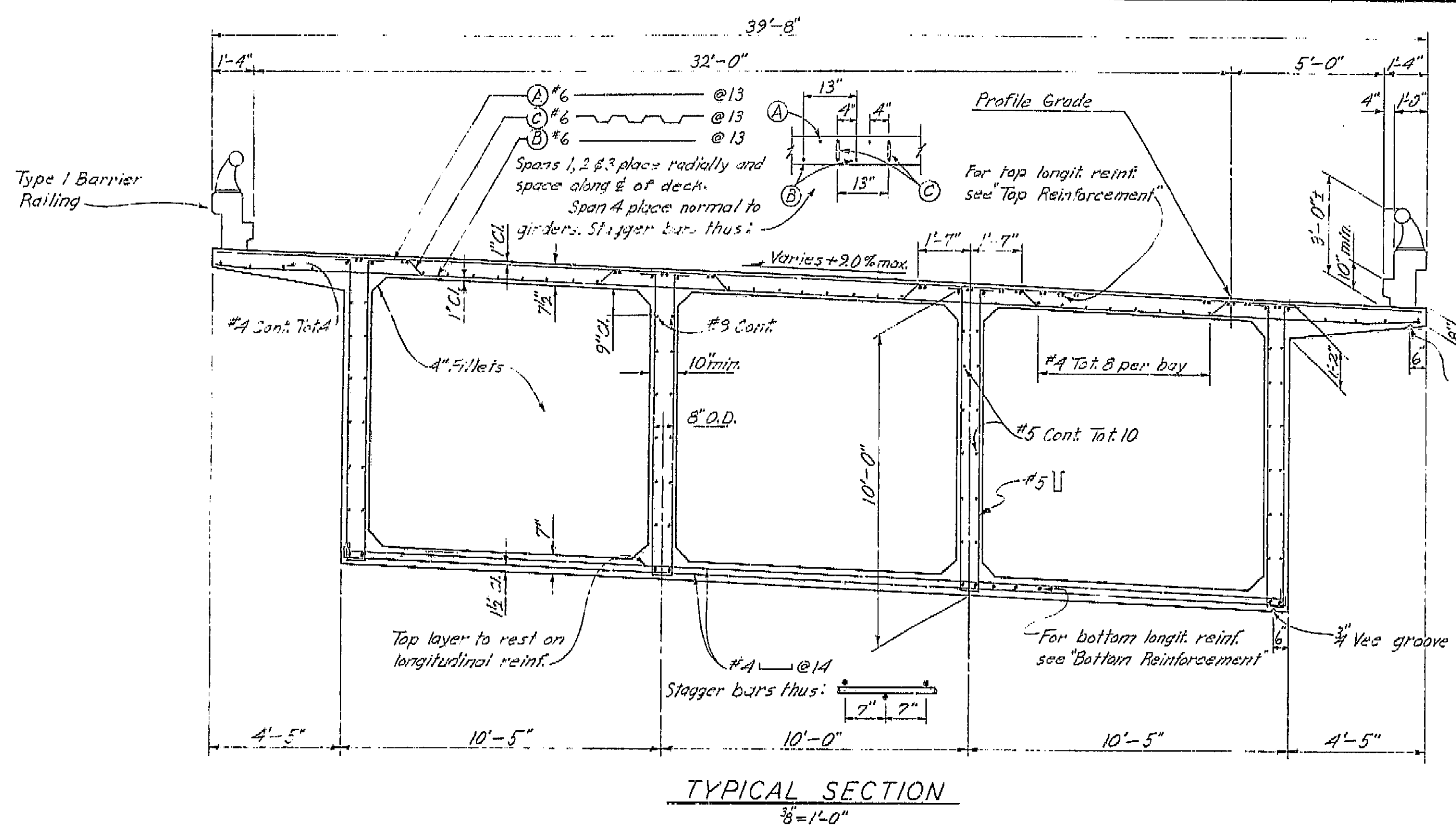
STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
ROUTE 99 ON RAMP O.C.			
BENT DETAILS			
SCALE: As Noted	BRIDGE: 42-216	FILE:	DRAWING: C.42216-8

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DATE: 1-10-62 SIGNATURE: *[Signature]* TITLE: *[Signature]*







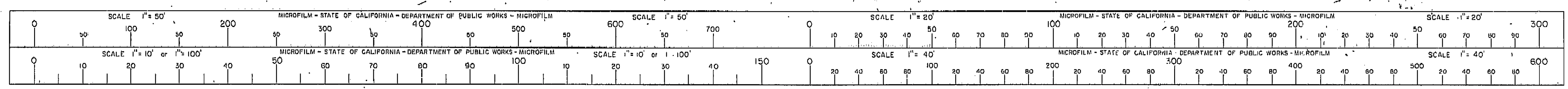
317

**AS BUILT PLANS**  
 Contract No. 62-6713C3  
 Date Completed \_\_\_\_\_  
 Document No. 60001062

BRIDGE DEPARTMENT <b>DESIGN SECTION 2</b> Project Designer: <i>[Signature]</i> Chief Designer: <i>[Signature]</i>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN: R. J. Jurack 3/61 DETAILS: H. N. Dahi 1/60 QUANTITIES: H. N. Dahi 4/61 SPECIFICATIONS: R. J. Jurack 3/61		ROUTE 99 ON RAMP O.C. <b>TYPICAL SECTION</b>	
Approved Recommended by: <i>[Signature]</i> Chief Eng. License No. 12345		SCALE: As Noted	BRIDGE: 42-216 FILE: _____ DRAWING: C-42216-9

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE *[Signature]* TITLE *[Title]*



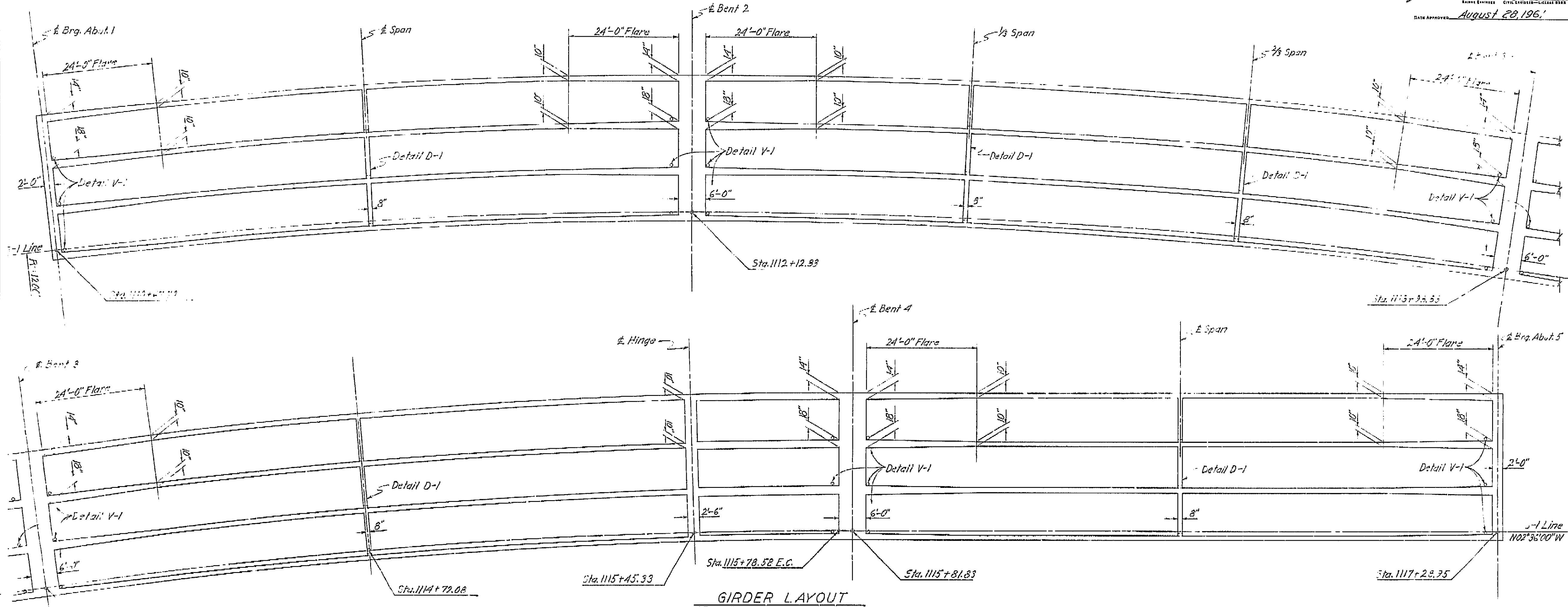
VI Fre 99

U-006-2(6)  
F-006-2(5)

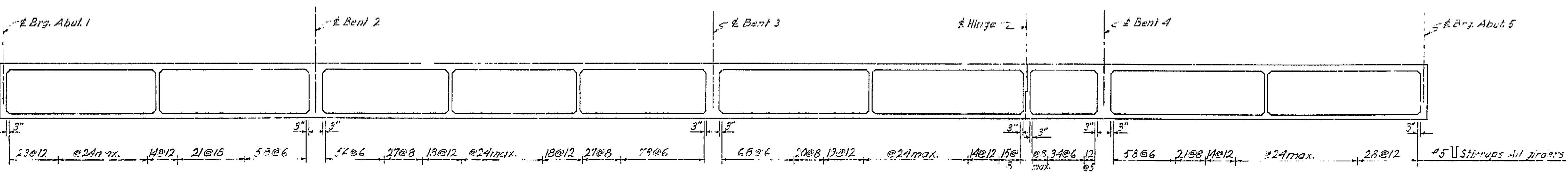
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		318	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		318	424

DATE APPROVED: August 28, 1961



GIRDER LAYOUT



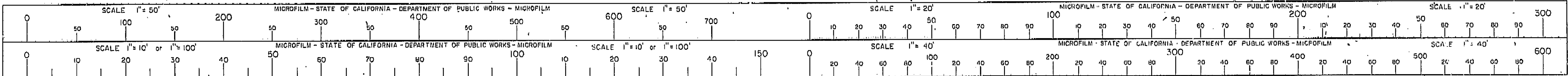
LONGITUDINAL SECTION

AS BUILT PLANS  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60001062

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: <i>Paul A. Johnston</i>			
Chief Designer: <i>W.D. Quisenberry</i>			
DESIGN	By: <i>P.J. Jurech</i>	Check: <i>D. Smith</i>	7/61
DETAILS	By: <i>H.N. Dahl</i>	Check: <i>D.S.</i>	7/61
QUANTITIES	By: <i>H.N. Dahl</i>	Check: <i>D. Sheltin</i>	7/61
SPECIFICATIONS	By: <i>H.N. Dahl</i>	Check: <i>D. Sheltin</i>	7/61
Approval Recommended by: _____			

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
99			
ROUTE # ON RAMP O.C.			
GIRDER LAYOUT			
SCALE: <i>None</i>	BRIDGE: 42-216	FILE	DRAWING: C-42216-10

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE: 1-12-62 SIGNATURE: *[Signature]* TITLE: *[Title]*





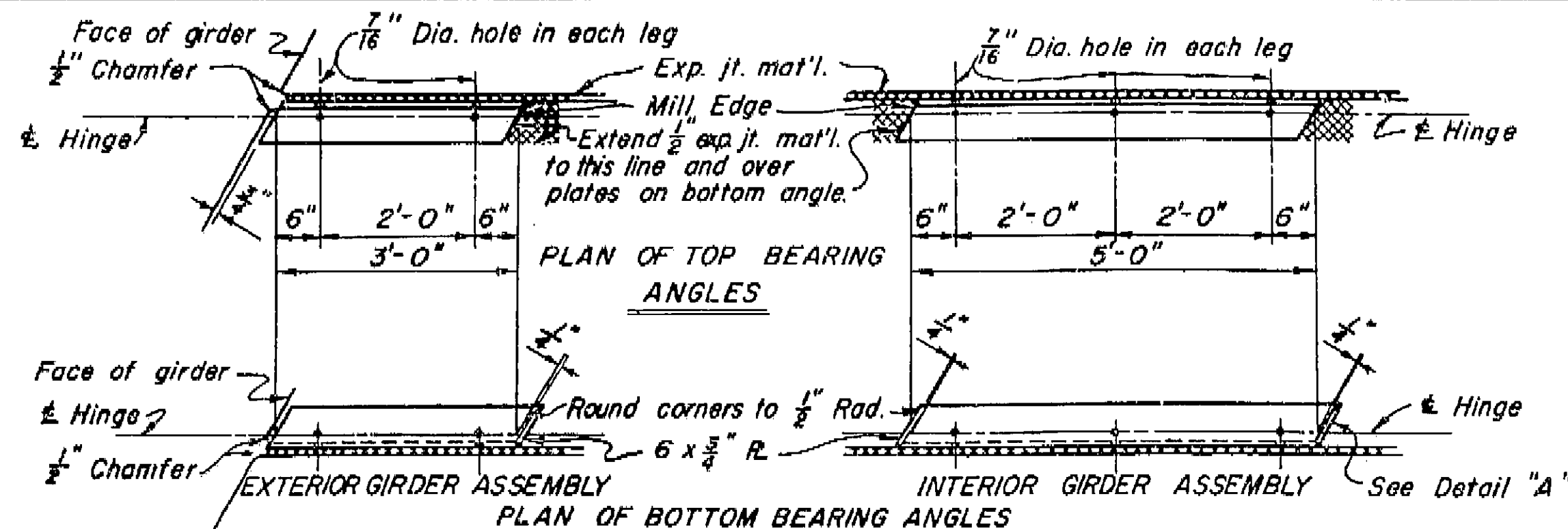
"Expansion Hinge" and  
"Rubber Waterstop"  
Detail,  
Rev. 2-59 R.T.K.

"Exp. Hinge" and  
"Rubber Waterstop"  
Detail,  
Rev. 7-59 R.T.K.

U-006-2(6)  
U-006-2(5)

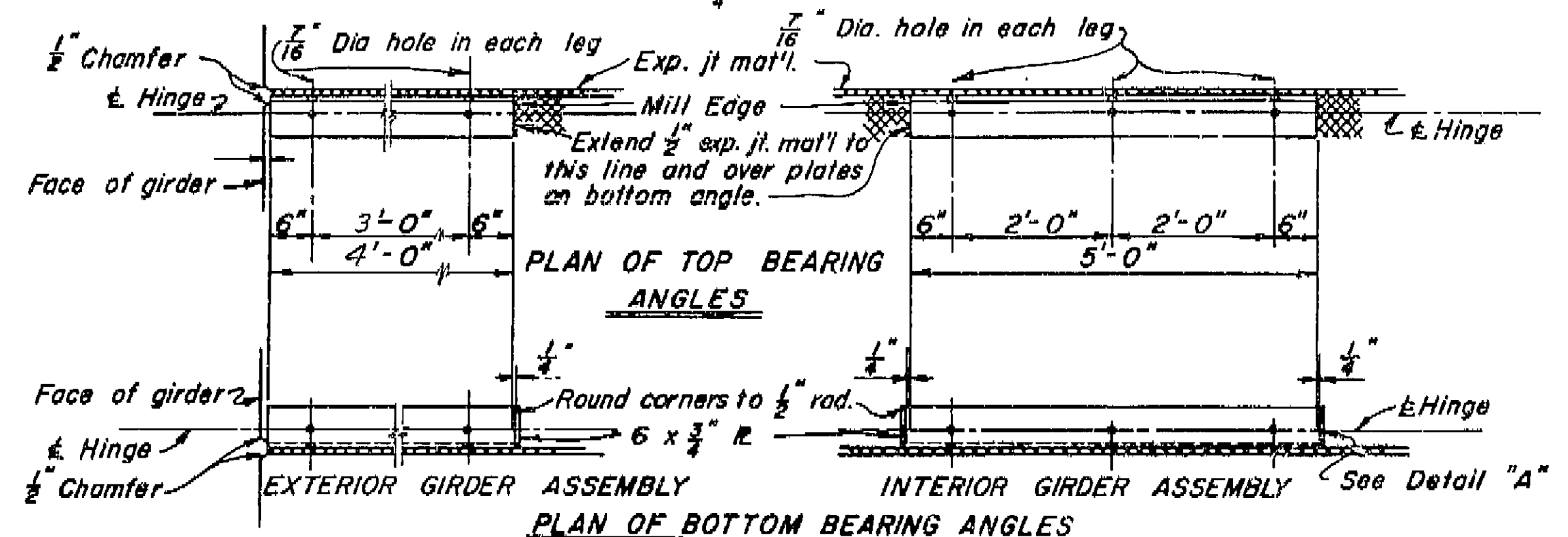
FED. ROAD DIST. NO. 7 STATE CALIF. PROJ. NO. 99 FISCAL YEAR 1960 SHEET 223 TOTAL SHEETS 424

DATE APPROVED August 28, 1961



HINGE SKEWED TO GIRDER

Scale:  $\frac{3}{4}'' = 1'-0''$

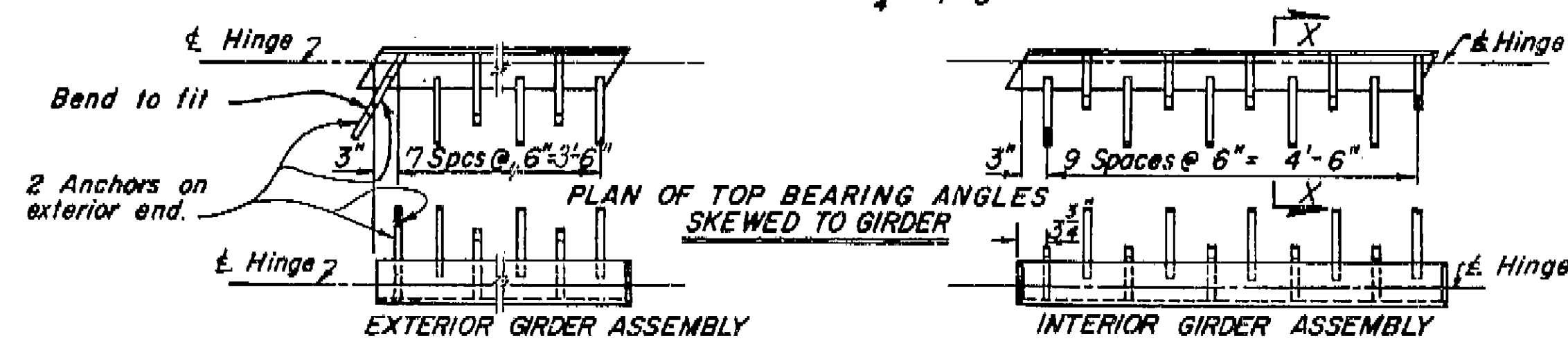


HINGE NORMAL TO GIRDER

Scale:  $\frac{3}{4}'' = 1'-0''$

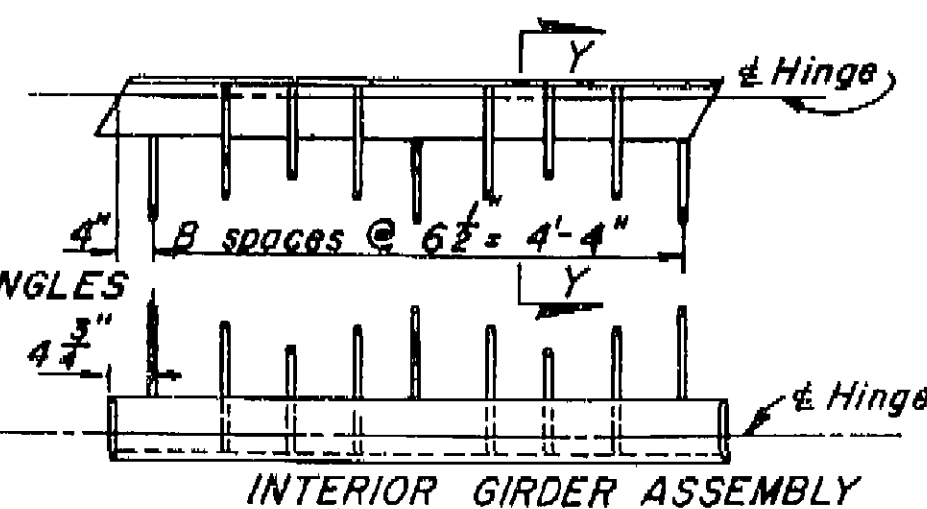
Exterior Assembly Max. shear for 3'-0" long angle = 151k

Interior Assembly Max. shear for 5'-0" long angle = 252k



STRAP ANCHORS

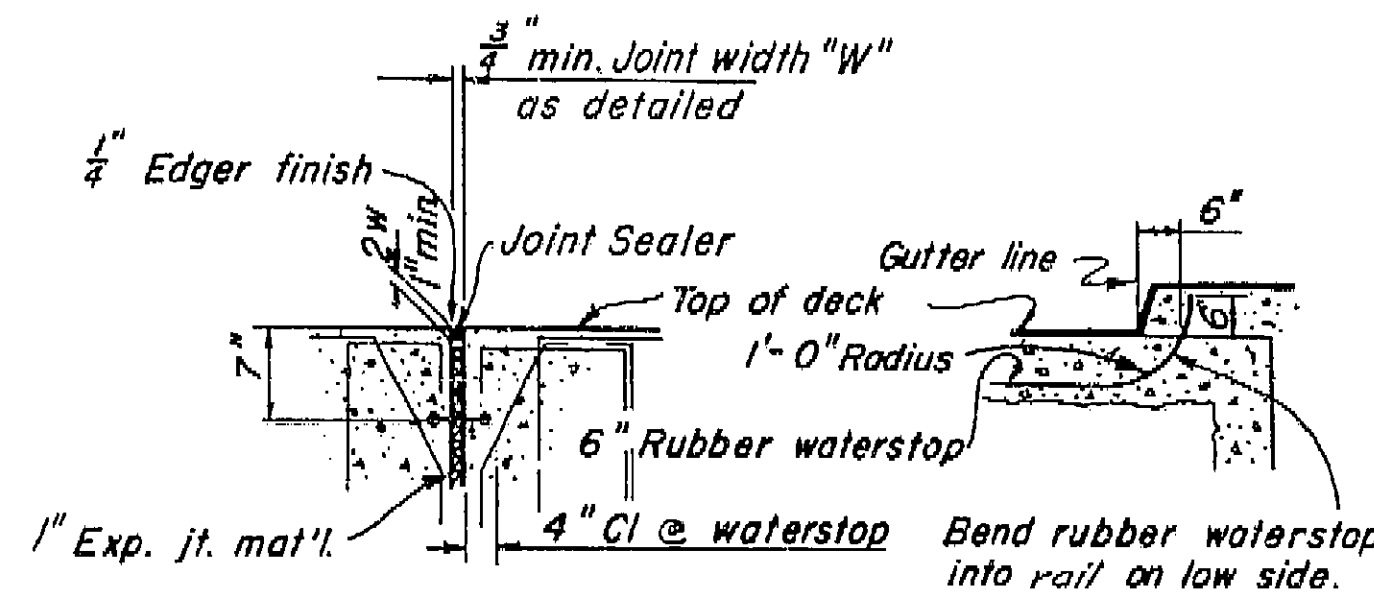
STUD ANCHORS



ANCHOR ALTERNATIVES

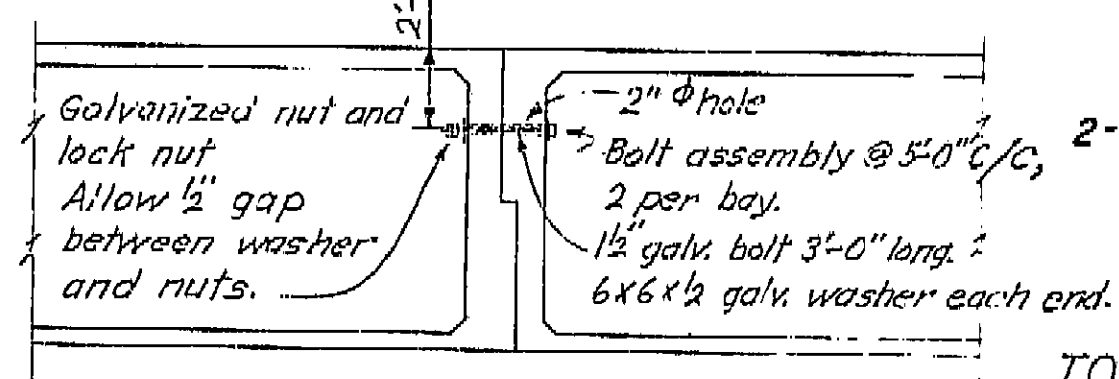
Scale:  $\frac{3}{4}'' = 1'-0''$

To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion material. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge



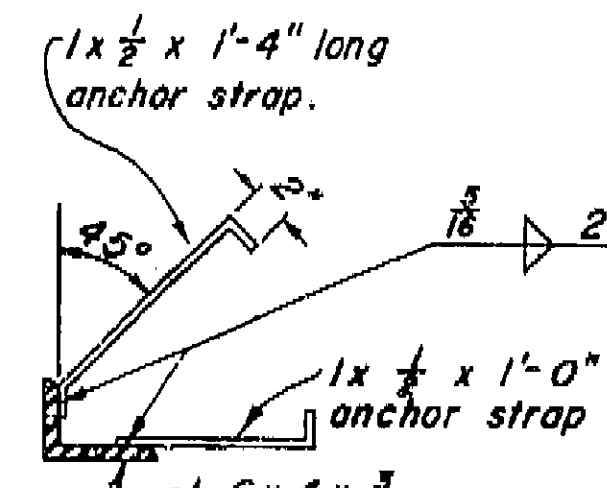
DETAIL OF RUBBER WATERSTOP

No Scale



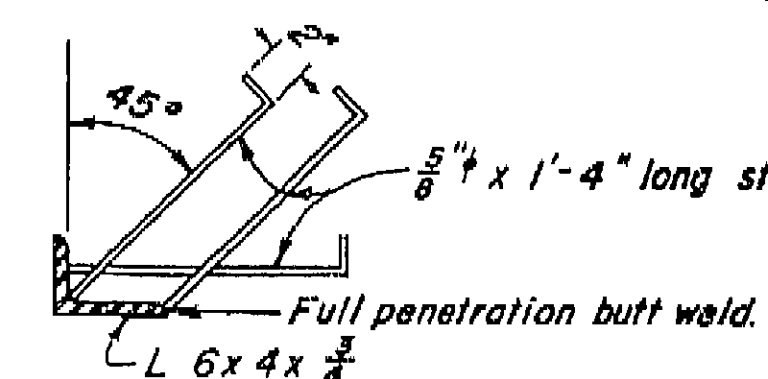
BOLT DETAIL

No Scale



SECTION X-X

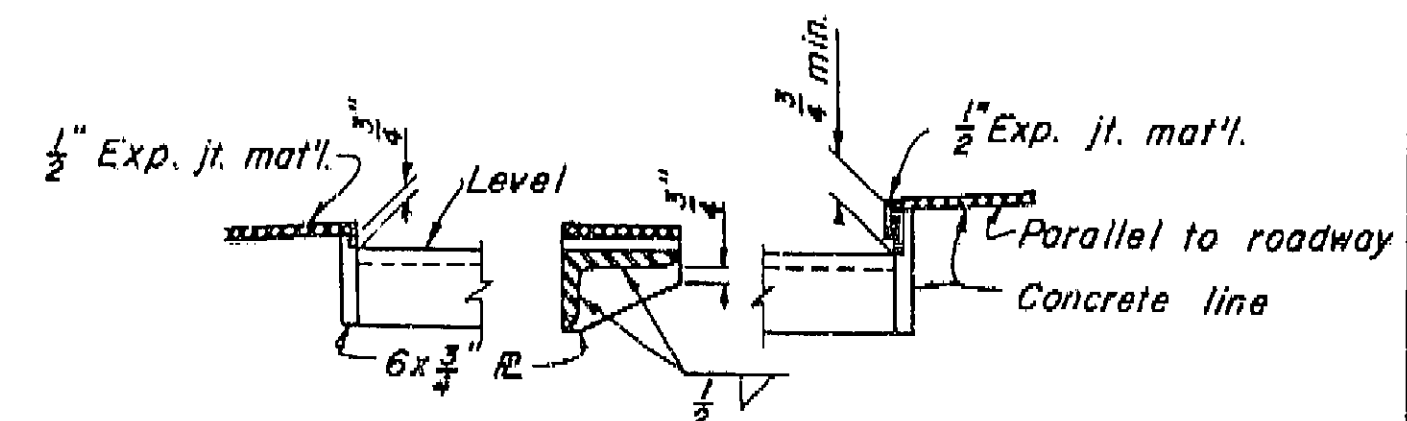
Scale:  $1\frac{1}{2}'' = 1'-0''$



SECTION Y-Y

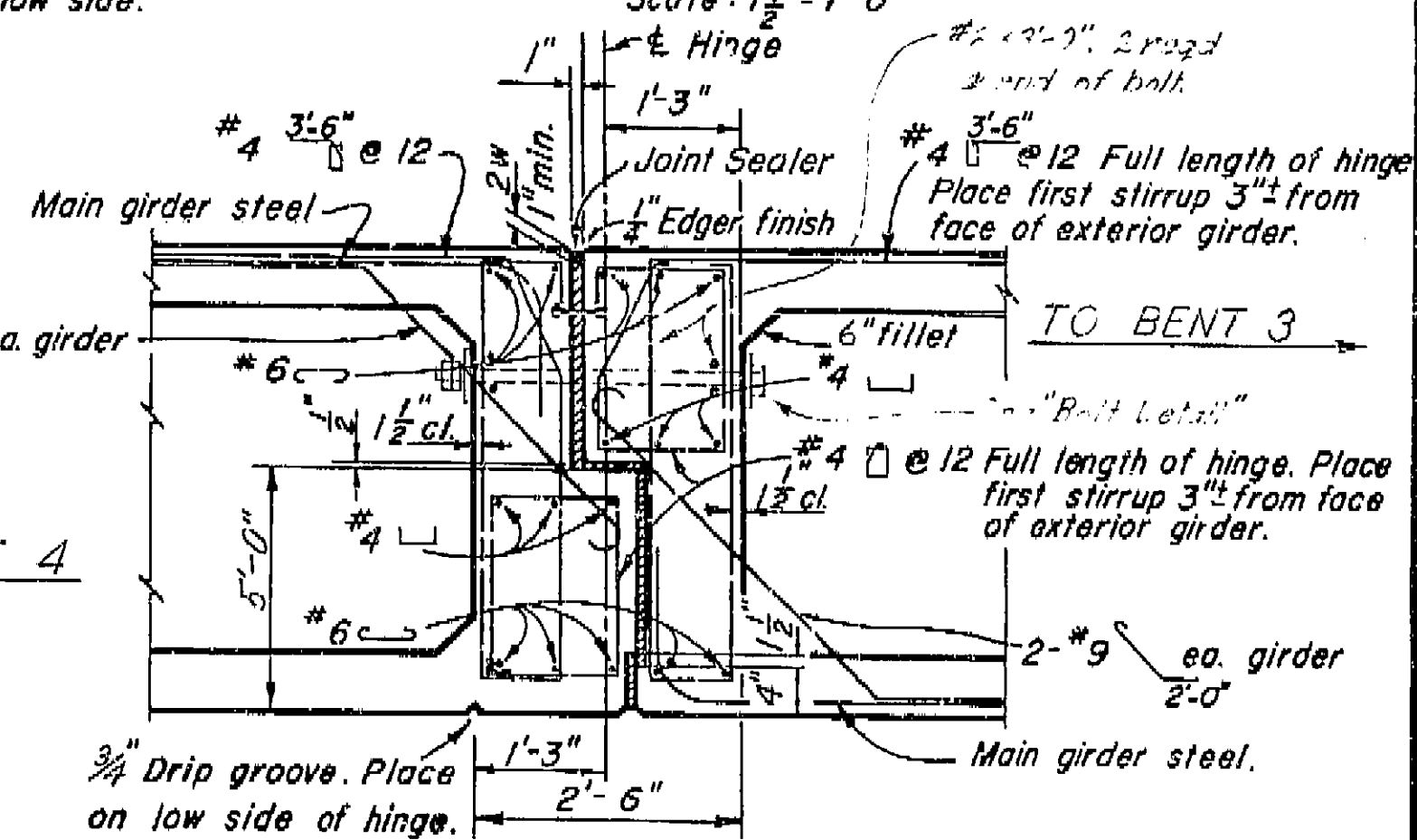
Scale:  $1\frac{1}{2}'' = 1'-0''$

Galvanize hinge assembly after fabrication.



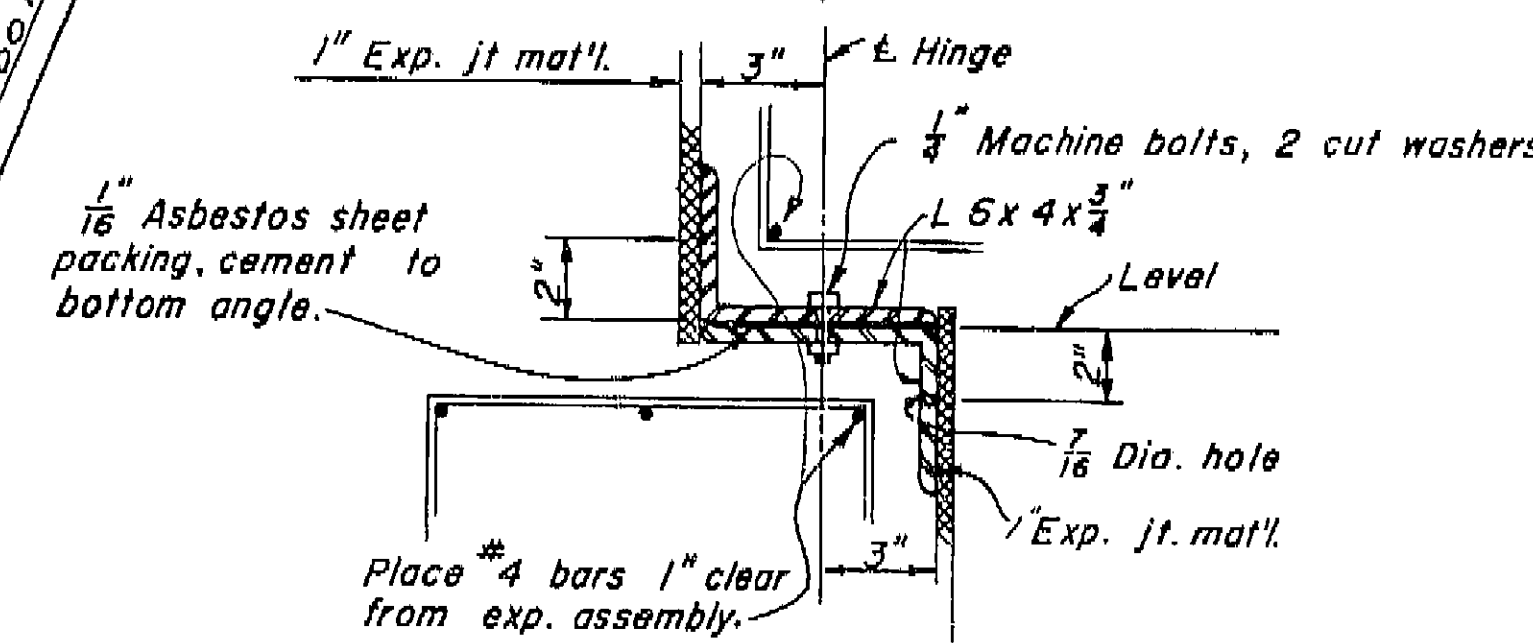
DETAIL "A"

Scale:  $1\frac{1}{2}'' = 1'-0''$



TYPICAL EXPANSION HINGE

Scale:  $\frac{3}{4}'' = 1'-0''$



SECTION THRU EXPANSION ASSEMBLY

Scale:  $3'' = 1'-0''$

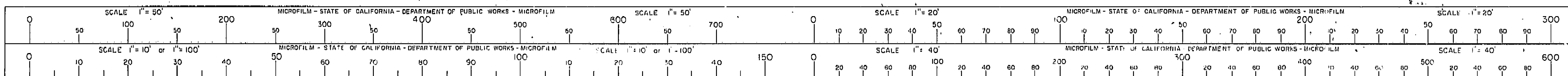
Note: This sheet has been altered from the standard.

BRIDGE DEPARTMENT		DESIGN SECTION		7/59		STATE OF CALIFORNIA		4A.7.5.2.	
Project Designer: S. J. J. J.		Chief Designer: S. J. J. J.		99		ROUTE # CN RAMP CC			
DESIGN		DETAILS		QUANTITIES		SPECIFICATIONS		HINGE DETAIL (BOX GIRDER)	
DESIGN		DETAILS		QUANTITIES		SPECIFICATIONS		SCALE As Noted	
DESIGN		DETAILS		QUANTITIES		SPECIFICATIONS		BRIDGE 42-216	
DESIGN		DETAILS		QUANTITIES		SPECIFICATIONS		FILE XS-12-5	
DESIGN		DETAILS		QUANTITIES		SPECIFICATIONS		DRAWING C-42216-15	

PREL. DRAWING NO. P-42216-15 1/4 3/4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 11-12-62 SIGNATURE TITLE





AS BUILT PLANS  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60991062

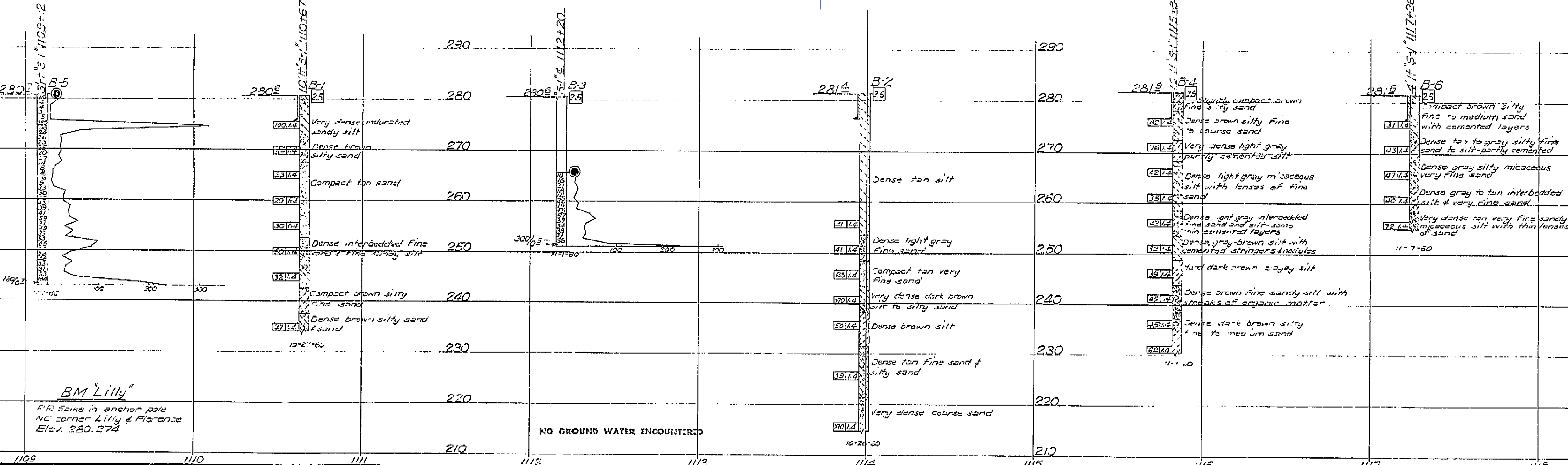
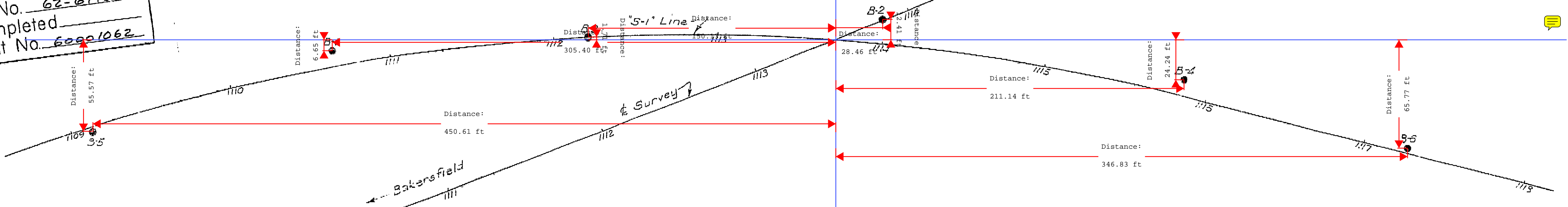
VI Fre 99  
U-006-2(6)  
F-006-2(5)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CAL.		327	424

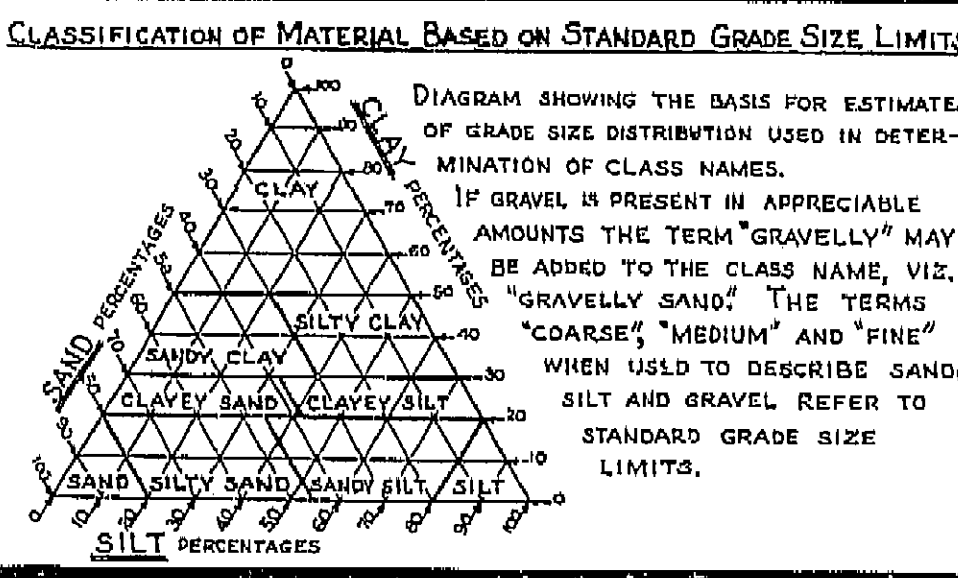
DATE	CONTRACT	APPROVED	SECTION	SHEET NO.	TOTAL SHEETS
1/21/62	62-6T13C3	1/21/62	1/21/62	327	424

DATE APPROVED August 28, 1961

2

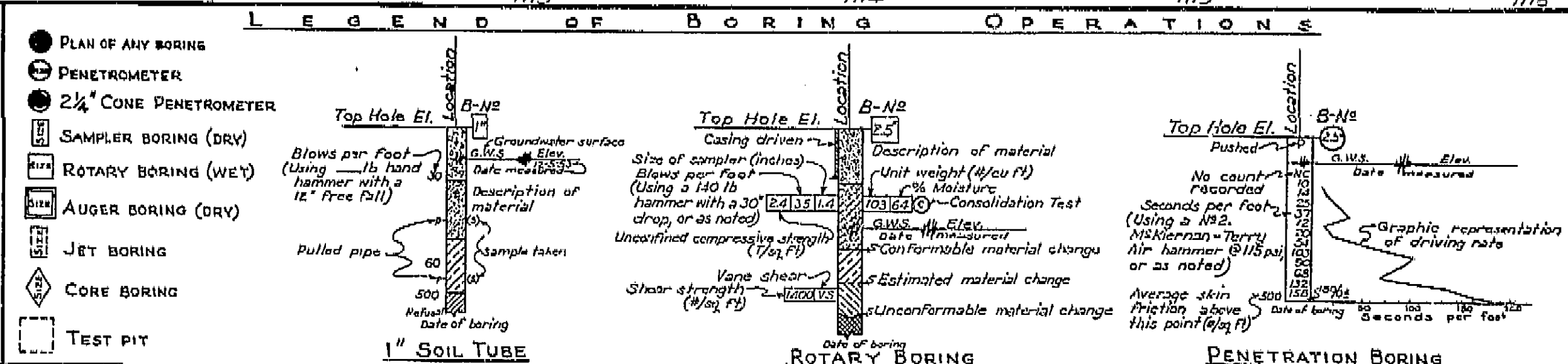


FIELD STUDY  
DRAWN  
CHECKED  
APPROVED



LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

99  
ROUTE 99 ON-RAMP OVERCROSSING

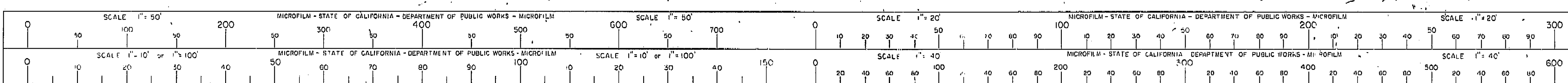
LOG OF TEST BORINGS

Horizontal: 1"=30'  
Vertical: 1"=10'

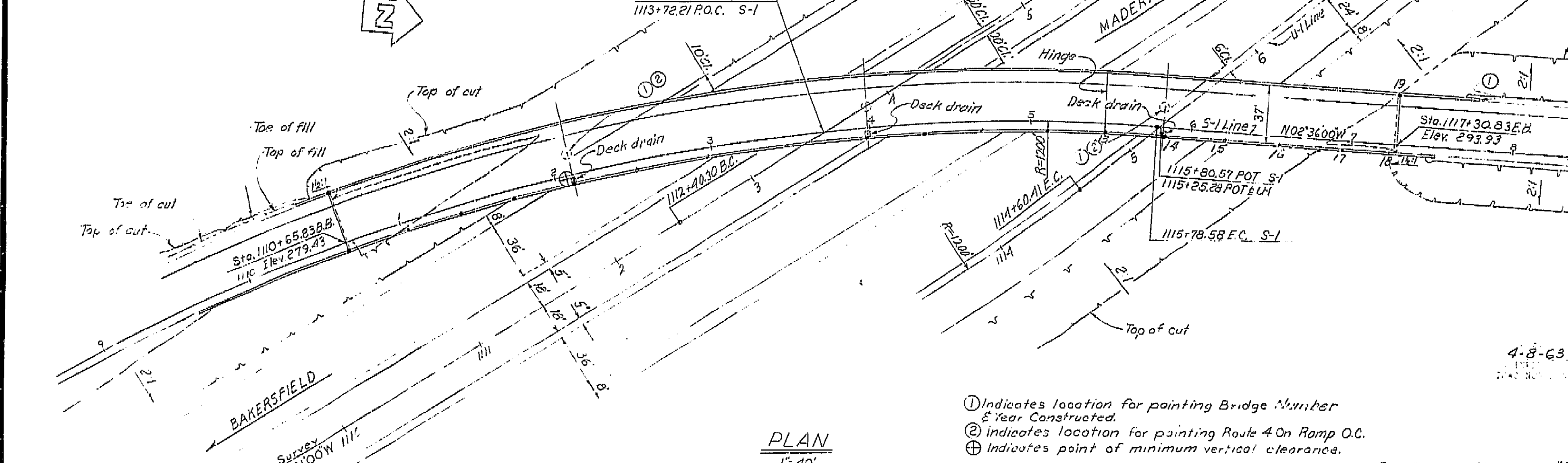
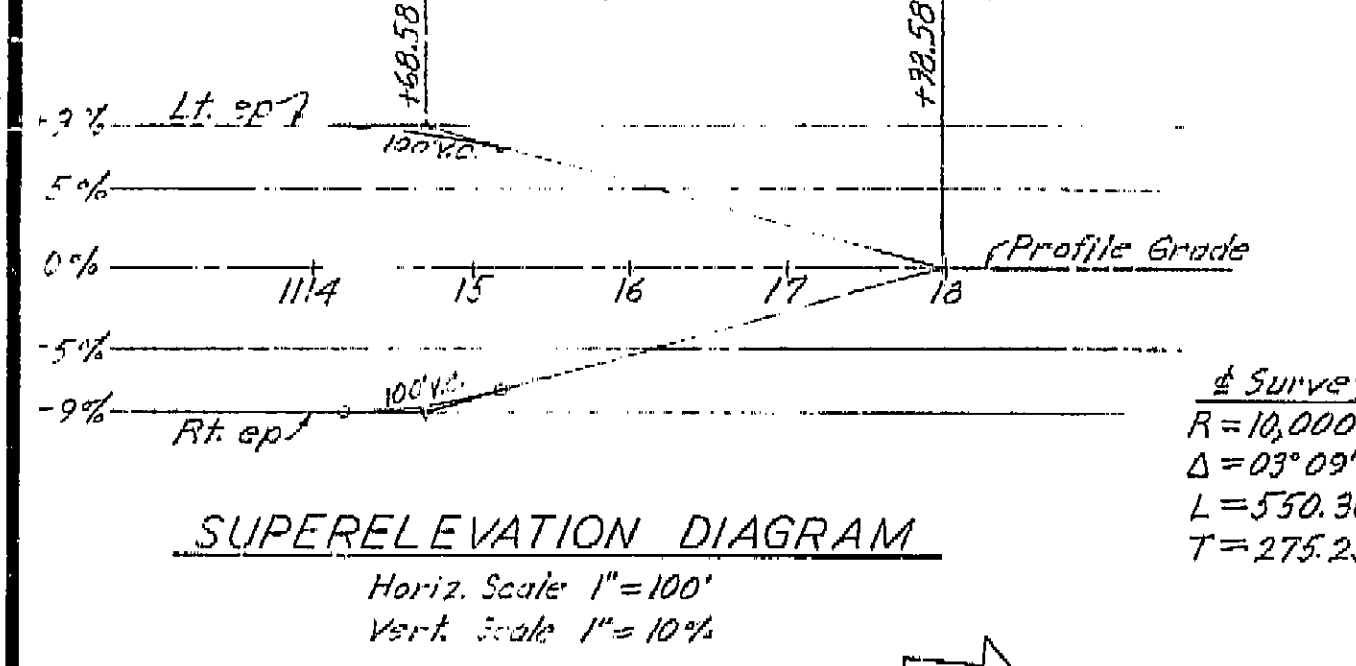
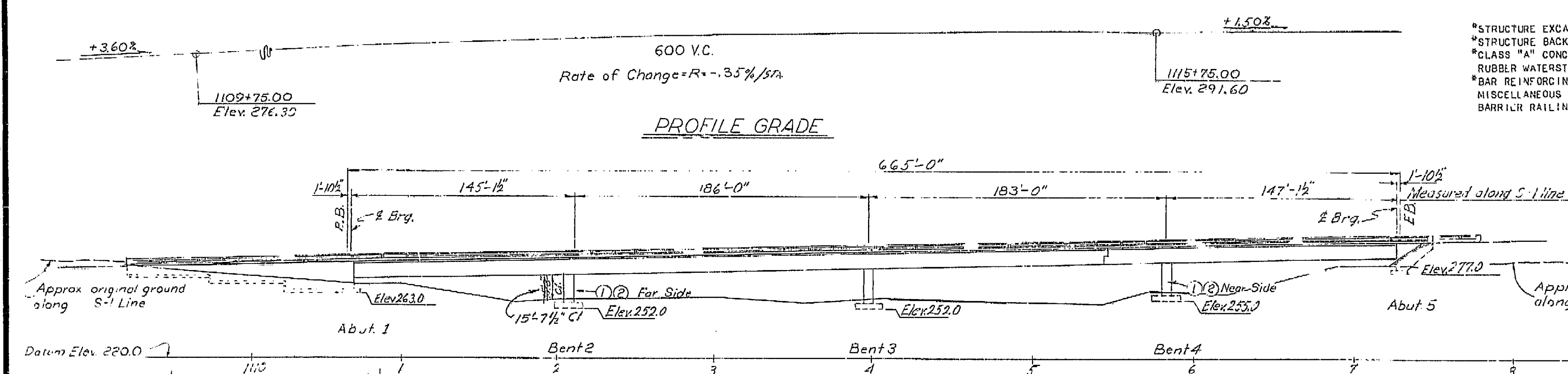
BRIDGE 42-216  
FILE  
DRAWING C-42216-19

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1/21/62 SIGNATURE [Signature] TITLE [Title]







APPROXIMATE QUANTITIES

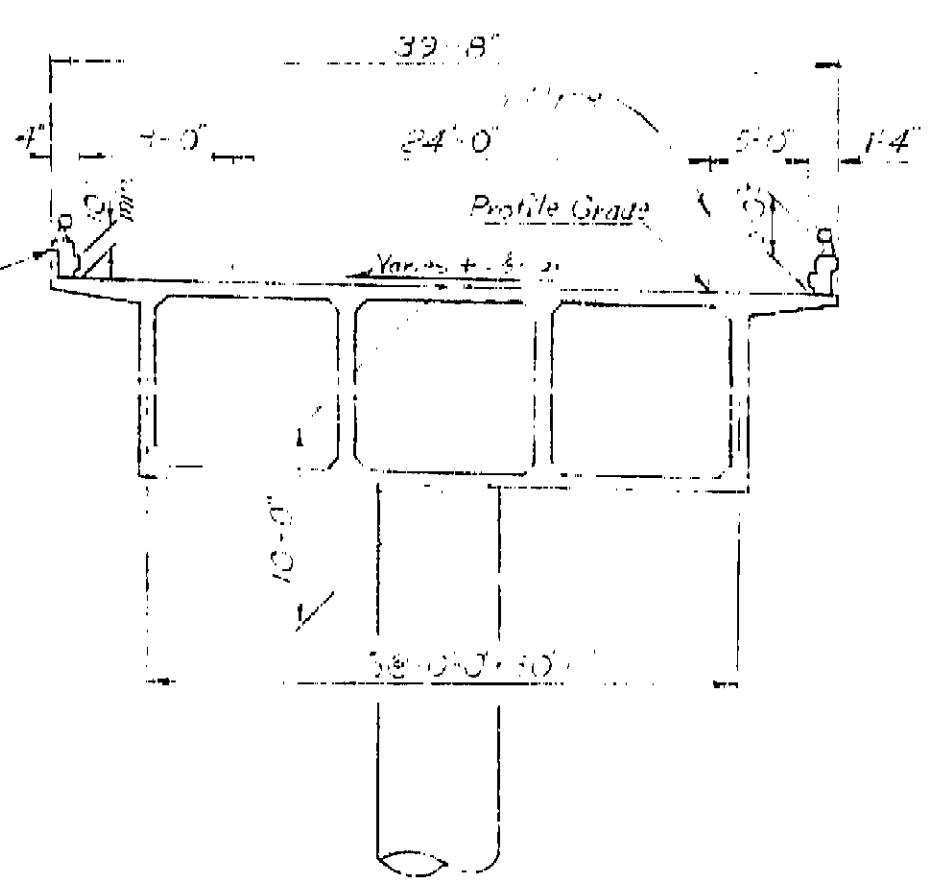
*STRUCTURE EXCAVATION (BRIDGE)	1,130 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	680 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	2,710 C.Y.
RUBBER WATERSTOPS	158 L.F.
*BAR REINFORCING STEEL (BRIDGE)	812,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	10,000 LBS.
BARRIER RAILING (TYPE 1)	1,517 L.F.

FINAL QUANTITIES

PM. 19.6

APPROVED: *[Signature]*

DATE: August 28, 1961



INDEX TO PLANS

SHEET NO.	TITLE
1.	General Plan
2.	Grid of Deck Elevations
3.	Foundation Plan
4.	Abutment Details No. 1
5.	Abutment Details No. 2
6.	Type 1 Cantilever Retaining Wall
7.	Retaining Wall Details No. 1
8.	Bent Details
9.	Typical Section
10.	Grid Layout
11.	Top Reinforcement
12.	Bottom Reinforcement
13.	Stairs and Details No. 1
14.	Standard Details No. 2
15.	Hinge Detail
16.	Drainage Details
17.	Barrier Railing Sheet 1
18.	Barrier Railing Sheet 2
19.	Log of Test Borings
20.	Lighting Plan

AS BUILT PLANS

Contract No. 62-6713C3

Date Completed

Document No. 60001062

S-1

R=1200

Δ=39°15'00"

L=822.05'

T=427.89'

LIVE LOADING H20-S16-44 & ALTERNATIVE

BRIDGE DEPARTMENT

DESIGN SECTION

Project Designer: *[Signature]*

Chief Designer: *[Signature]*

DESIGN	W. J. Sullivan	Checked: D. J. Sullivan
DETAILS	W. J. Sullivan	Checked: D. J. Sullivan
QUANTITIES	W. J. Sullivan	Checked: D. J. Sullivan
SPECIFICATIONS	W. J. Sullivan	Checked: D. J. Sullivan

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

TO BE LOCATED AT THE INTERSECTION OF KIRK AND FLORENCE AVE. IN THE CITY OF FRESNO

GENERAL PLAN

SCALE: As Noted

BRIDGE 42-216

FILE

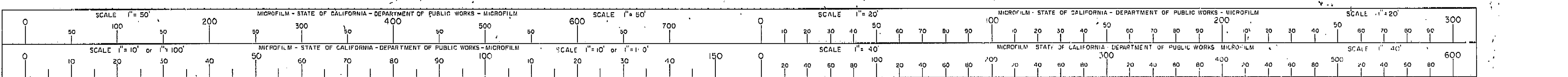
DRAWING C-42216-1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 1-12-62

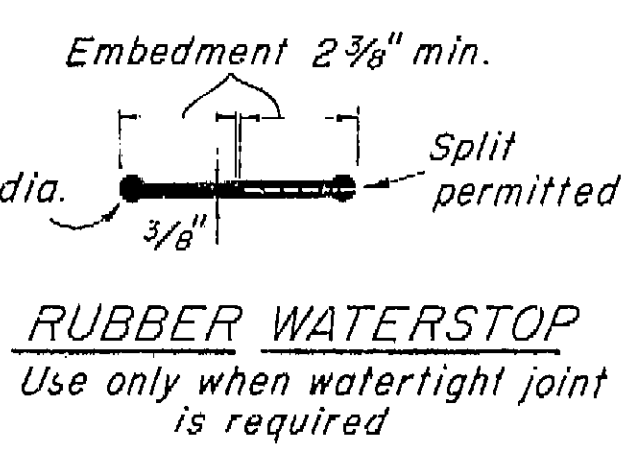
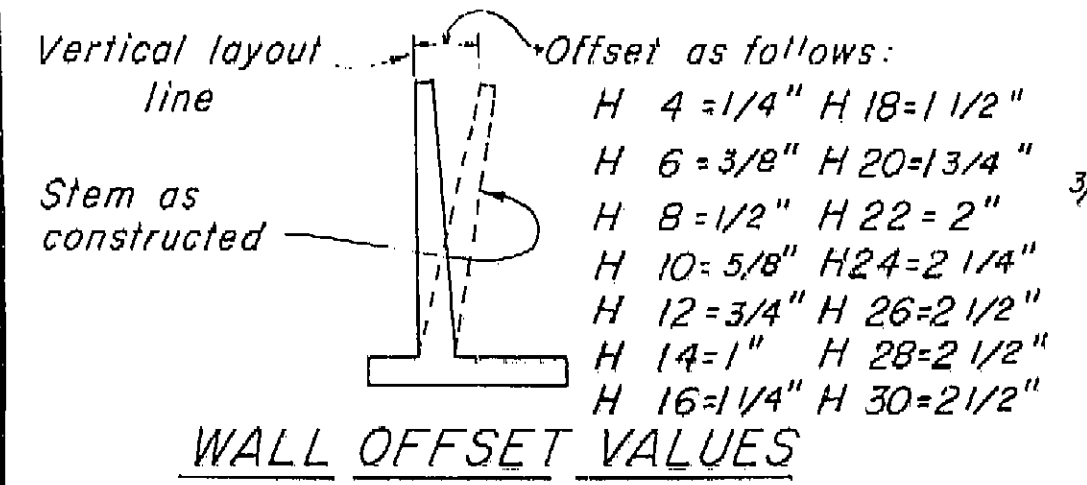
SIGNATURE: *[Signature]*

TITLE: *[Title]*





Revision: Optional  
Type Key: 9-58 B  
Mod/Note in Design  
Vintage Def.  
10-59 J.T.J.

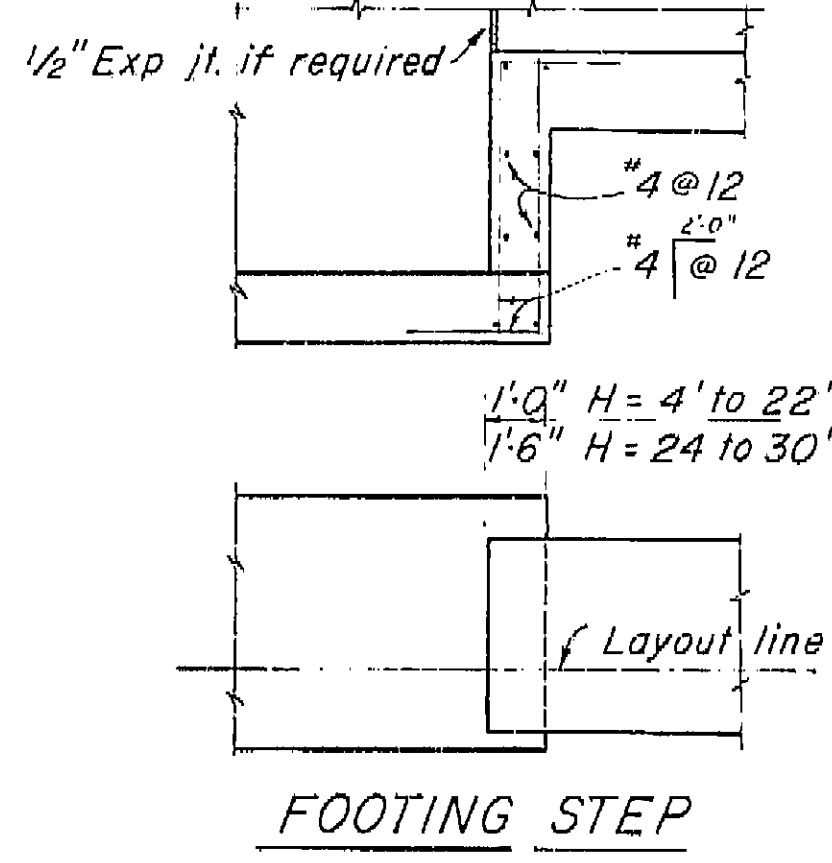
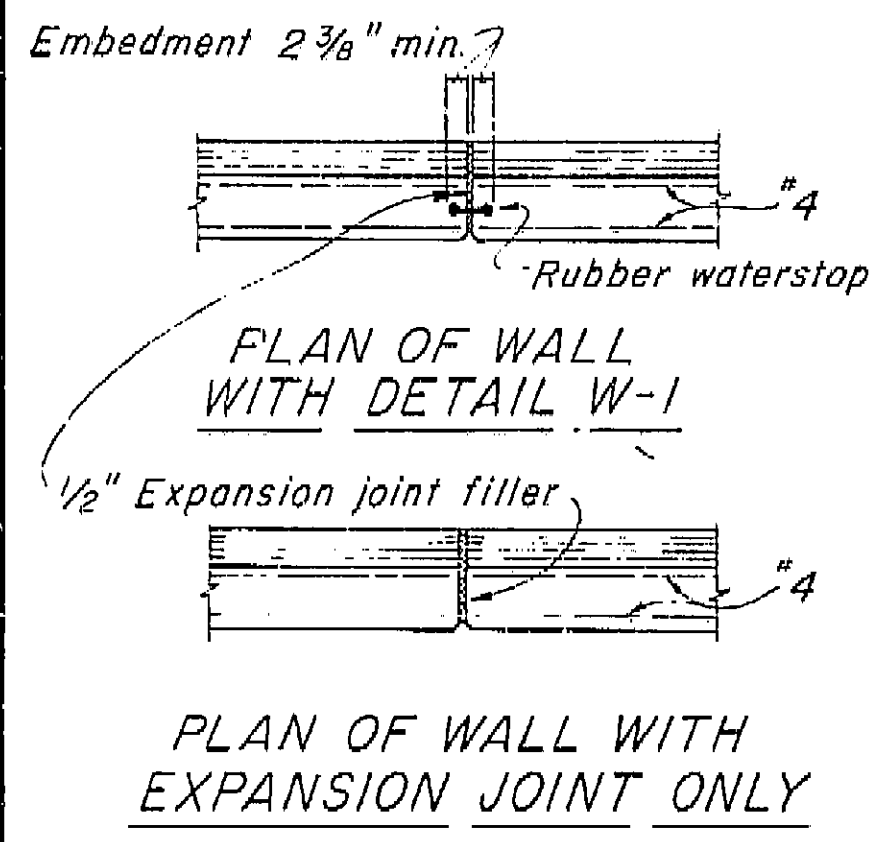
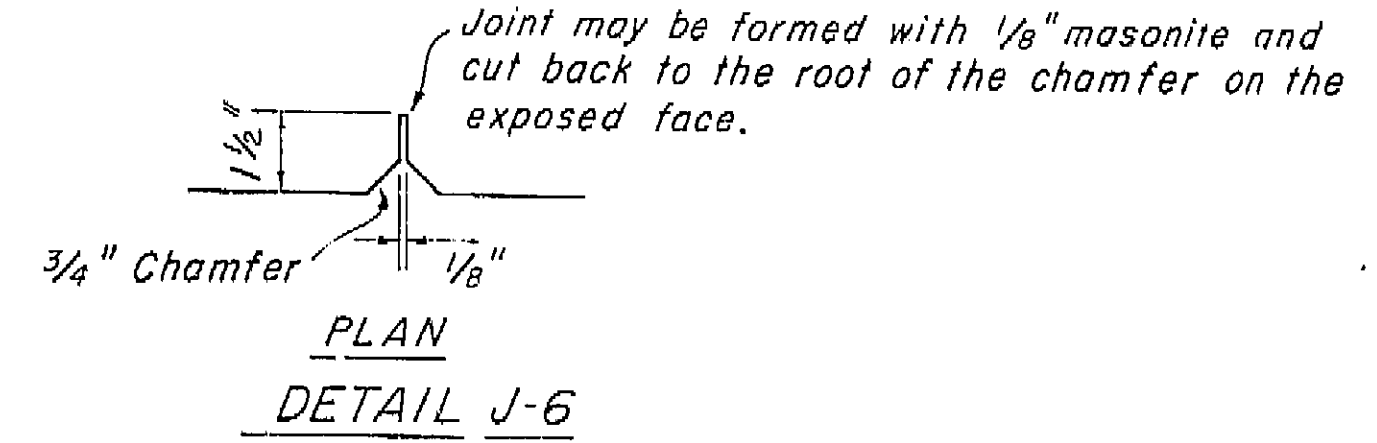
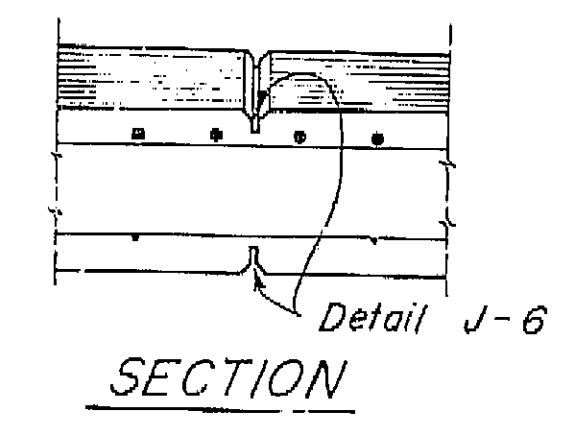
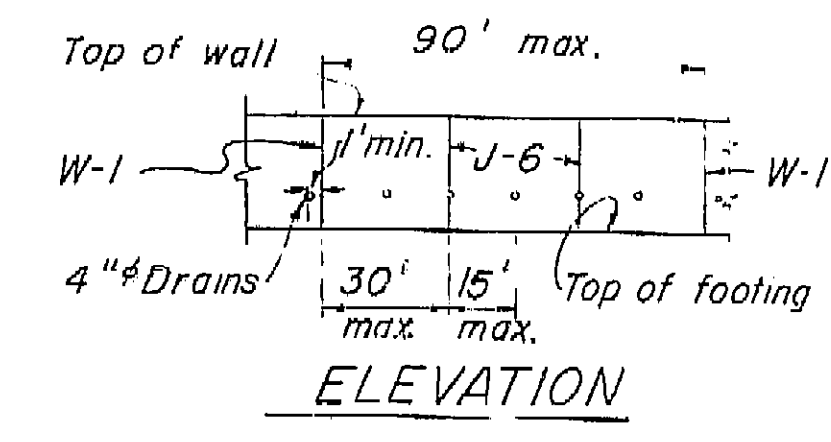
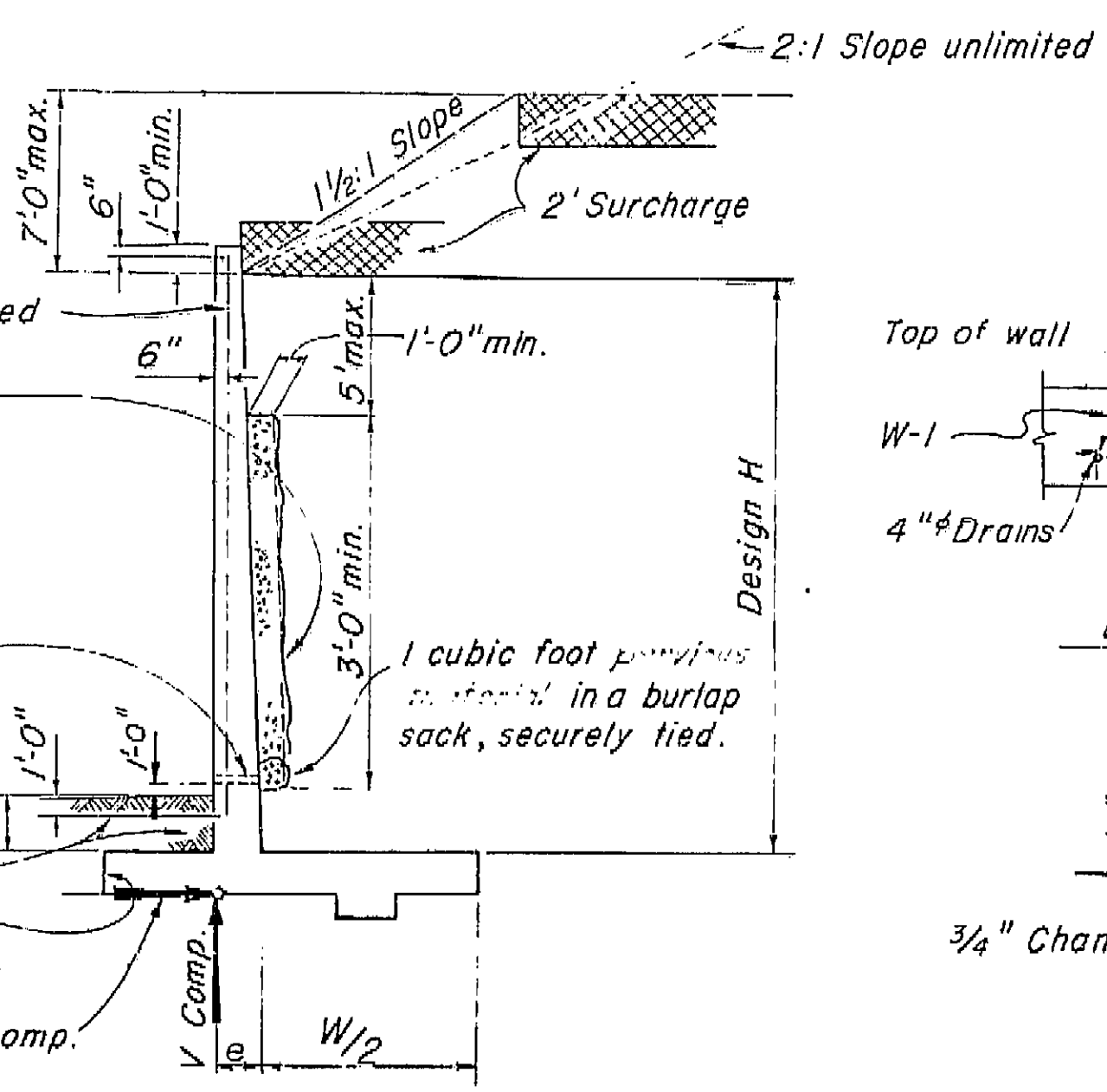


Note: For details of "Alternate Waterstop" see "Standard Details No. 1" sheet

Place rubber waterstop as shown when required  
Pervious material continuous behind wall.

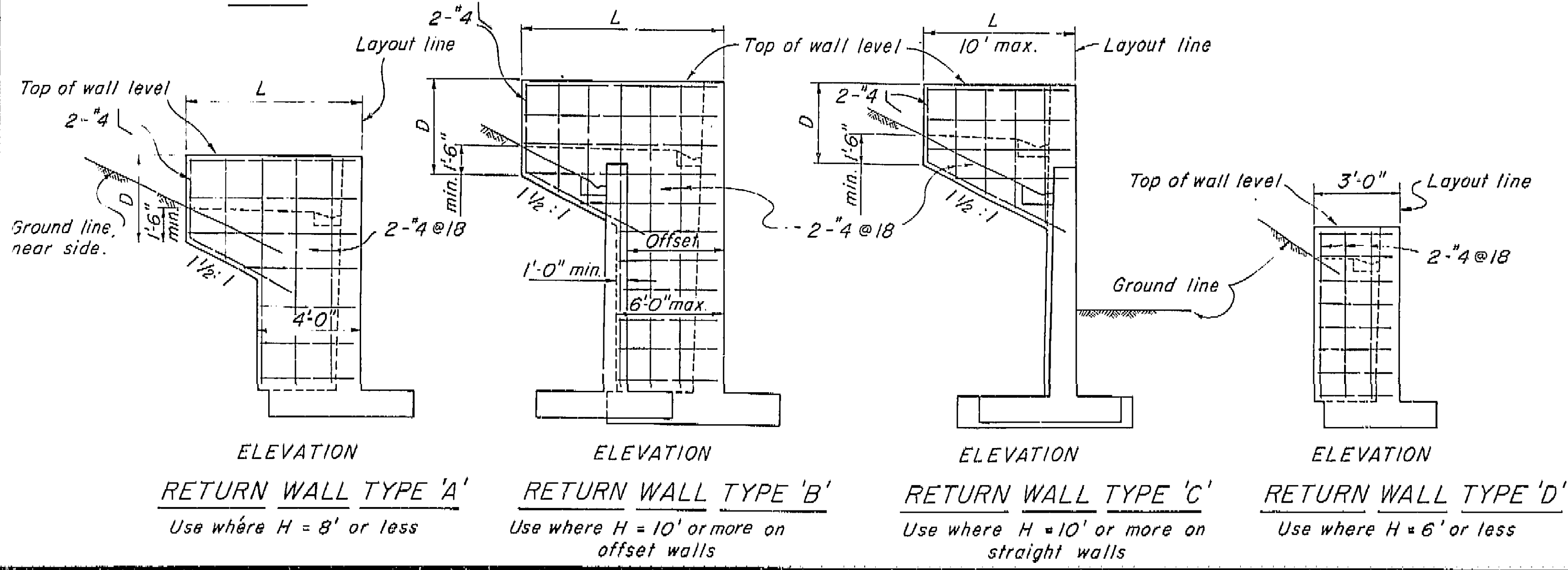
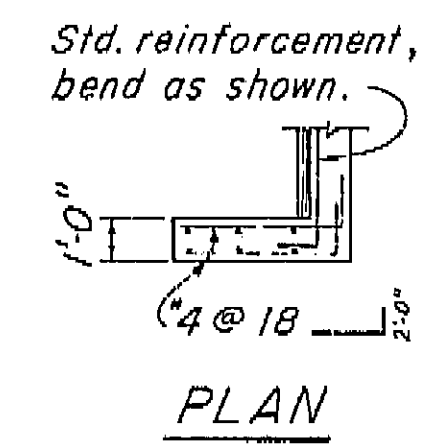
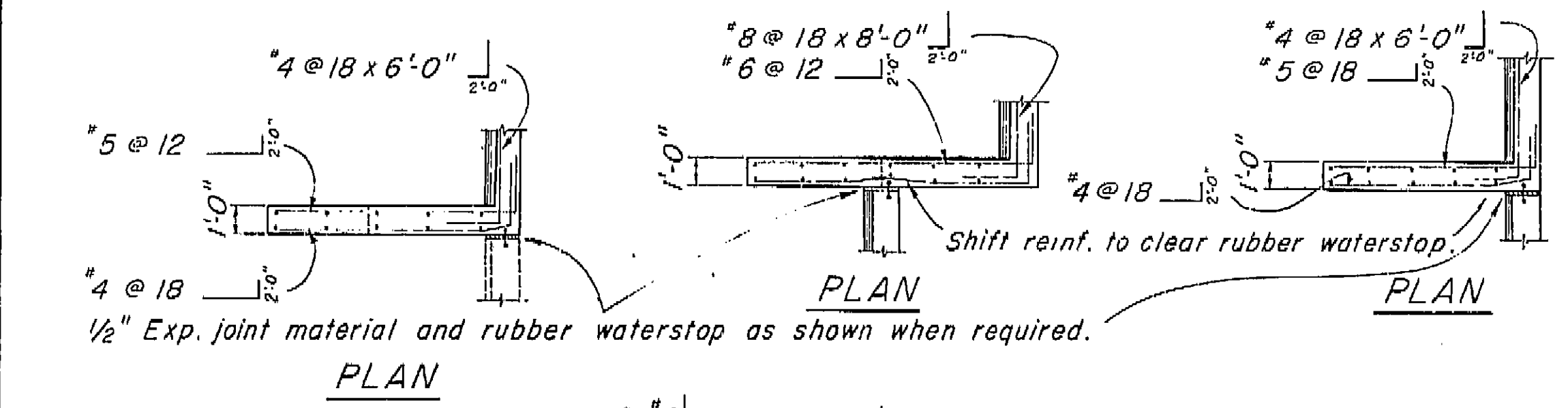
4" drains @ 15' ctrs. max. (9' ctrs. max. for Type 3 & 4 ret. walls), 1" above outside ground surface. Slope 1/2" per foot.  
Backfill sufficiently to prevent ponding. To be done after removal of wall forms and before backfilling behind wall.

Place concrete in toe against undisturbed material, except as permitted by the Engineer.



**DESIGN AND DRAINAGE**  
Surcharge limits shown apply to Retaining walls Type 1 and 3.

**AS BUILT PLANS**  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60001062



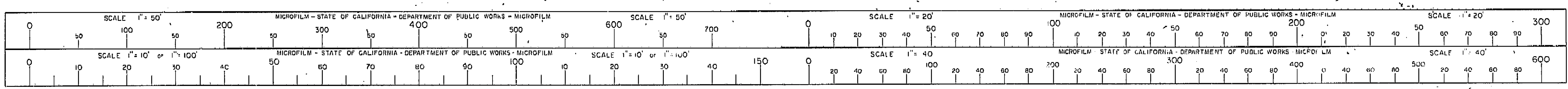
**NOTES**

**Design Conditions:**  
Design H may be exceeded by 6" before going to the next size.  
Footing key is required except when found unnecessary by the Engineer.  
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

**Design Data:**  
fc = 1200 psi fc = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf  
Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.  
Equivalent fluid pressure = 27 pcf min. for determination of heel pressure.

BRIDGE DEPARTMENT DESIGN SECTION Project Designer: [Signature] Chief Designer: [Signature]		10/59 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN DETAILS QUANTITIES SPECIFICATIONS		ROUTE 99 ON RAMP OC RETAINING WALL DETAILS NO. 1	
Approved Recommended by: [Signature] Checked and Approved: [Signature]		SCALE: Not to BRIDGE 42-216 FILE XS 3-45 DRAWING C-42216-7	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE: 10/59 SIGNATURE: [Signature] TITLE: [Title]





Revised 9-24-58  
Added Note  
1. Location  
Key 9-30-58  
Section Reinforced  
10-21-58  
Revised note at top  
Spread Fig. Sec.  
6-31-60  
Dimensions in table  
60 J.T.T.

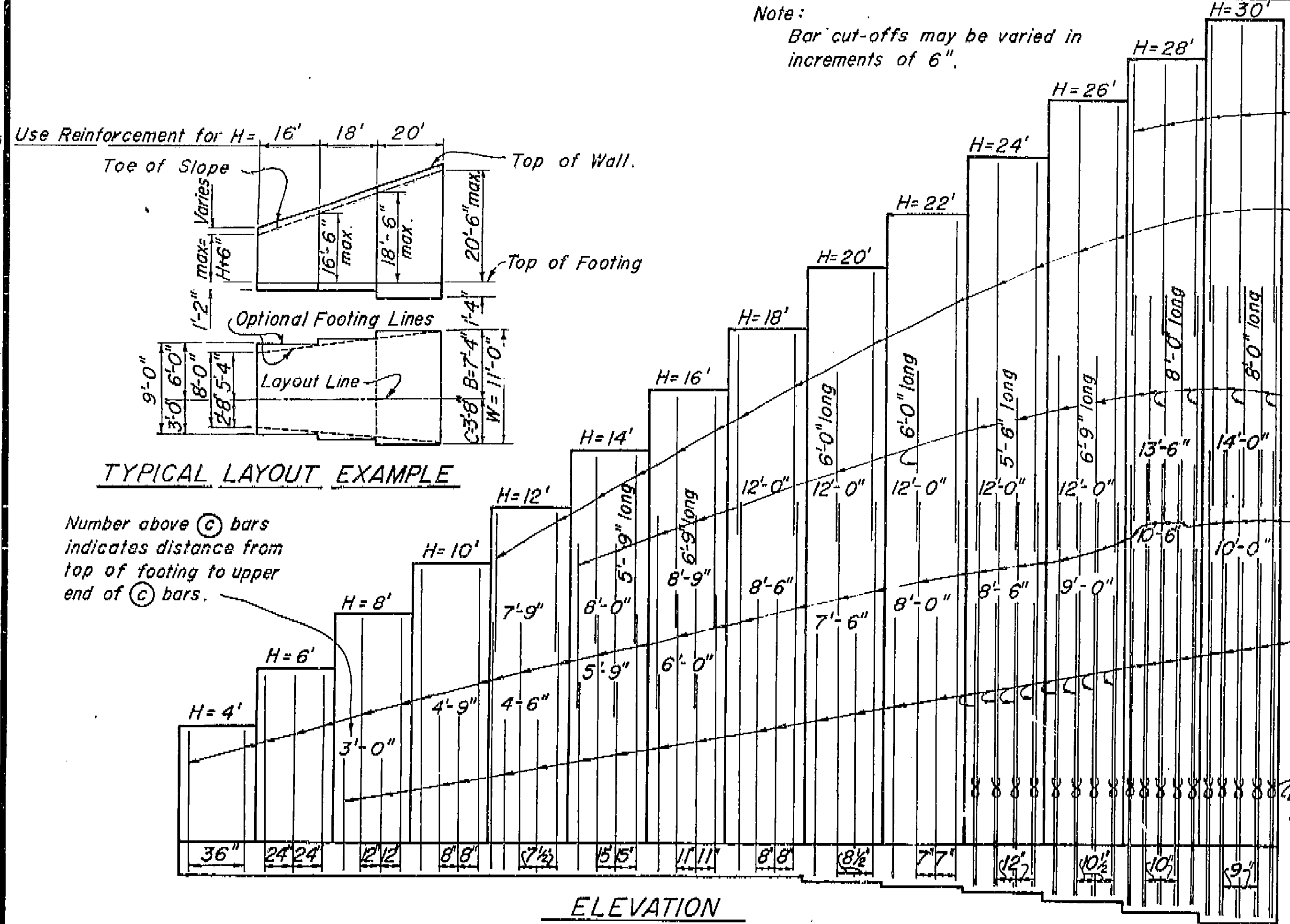
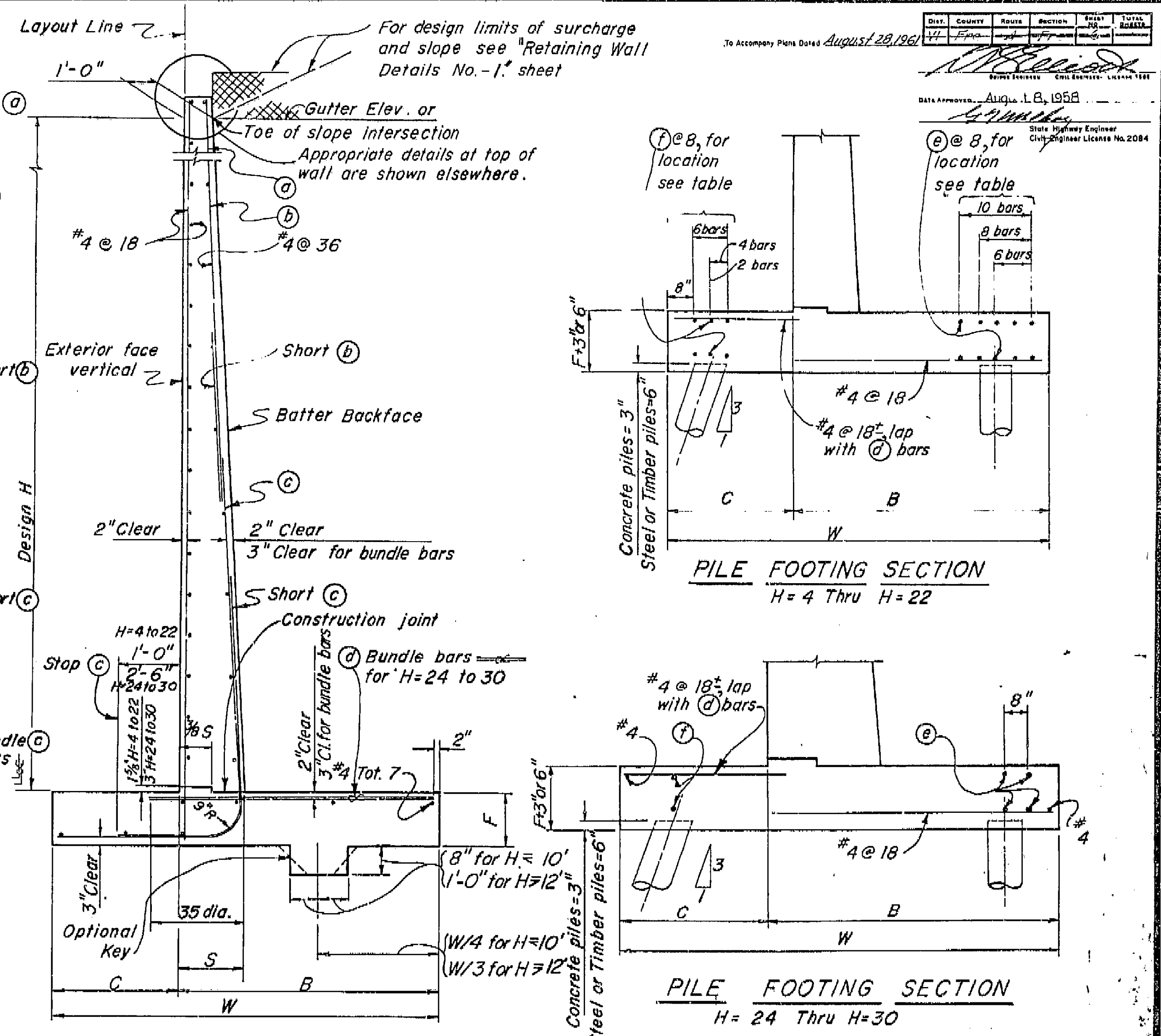


TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W	3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C	1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B	2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Fig.	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
F+3" Conc. Pile	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"
F+6" SH. or Tmr. p.	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-10"	1'-11"	2'-2"	2'-5"	2'-8"	2'-10"
S	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-3"	2'-4"	2'-5"	2'-6"
Batter	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12
(C) bars														
(D) bars														
(E) bars														
(F) bars														
Total (C) bars	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"
Total (D) bars	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"
H Comp. pounds	850	1440	2170	3050	4070	5240	6540	8000	9730	11630	13730	15950	18650	21450
V Comp. pounds	2020	3460	5230	7340	9760	12180	15260	18670	22690	27070	31750	36870	42560	50450
e feet	50	60	79	94	107	128	141	154	172	190	208	225	252	270
Toe Pressure P.S.F.	1240	1570	1930	2270	2640	2980	3290	3590	4000	4480	4640	5040	5810	6190
Spread Steel lbs./ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
Footing Conc. CF/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	45.0	52.1	63.1	73.0	87.6	102.7	102.7
Conc. Steel lbs./ft.	2.4	31	39	74	92	120	144	198	236	289	348	413	449	504
Pile fig. Conc. CF/ft.	8.8	12.8	16.7	20.8	25.2	29.5	34.1	39.0	45.8	53.1	64.4	74.6	89.4	104.8

⊗ Denotes a bundle of 2 bars.



Note: Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

Note: For details not shown and drainage notes see "Retaining Wall Details No. 1."

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 10/1/60, AS SUBMITTED BY RESIDENT ENGINEER. CORRECTED BY: J.T.T.

For pile footing Design H=4' use same footing dimensions as Design H=6'

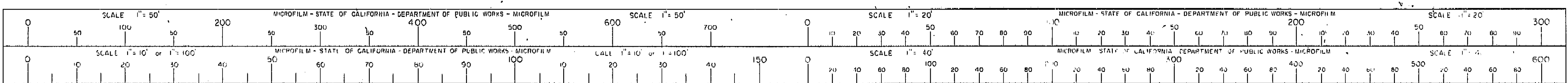
AS BUILT PLANS  
Contract No. 62-6T13C3  
Date Completed 10-21-60  
Document No. 62001062

BRIDGE DEPARTMENT  
DESIGN SECTION  
Project Designer: J.T.T.  
Chief Designer: J.T.T.

9/60  
STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS  
ROUTE 99 ON RAMP O.C.  
TYPE I CANTILEVER RETAINING WALL  
SCALE none  
BRIDGE 42-216  
FILE  
PREL. DRAWING NO. P-4224-6 1/8"

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 10-21-60 SIGNATURE J.T.T. TITLE



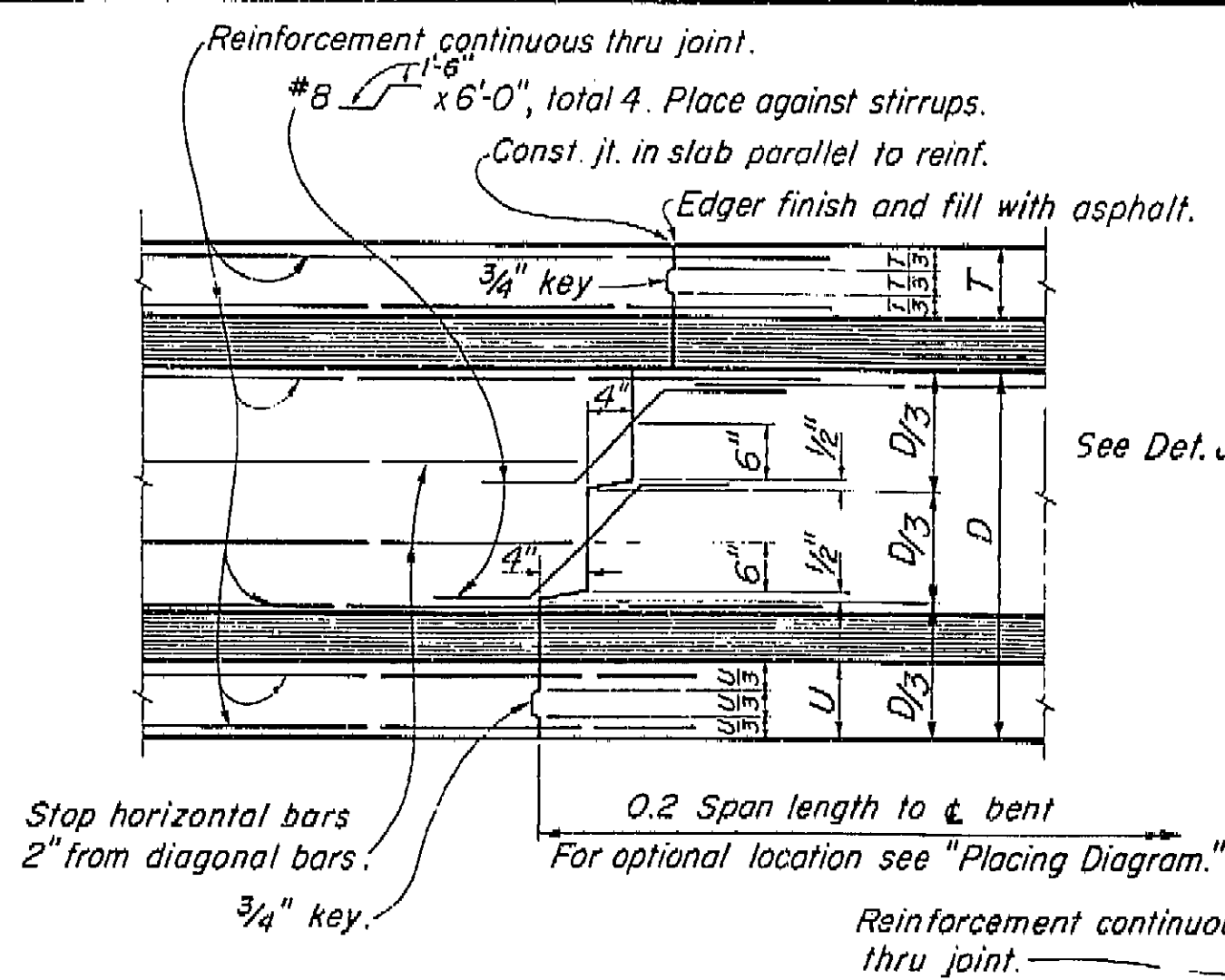


Revision: 9-22-60  
Made #8 bar cont.  
in Detail J-1.  
ETK.  
Rev. Deleted note in  
Detail J-1. Reversed  
position of percent notes.  
11-60 RTK.

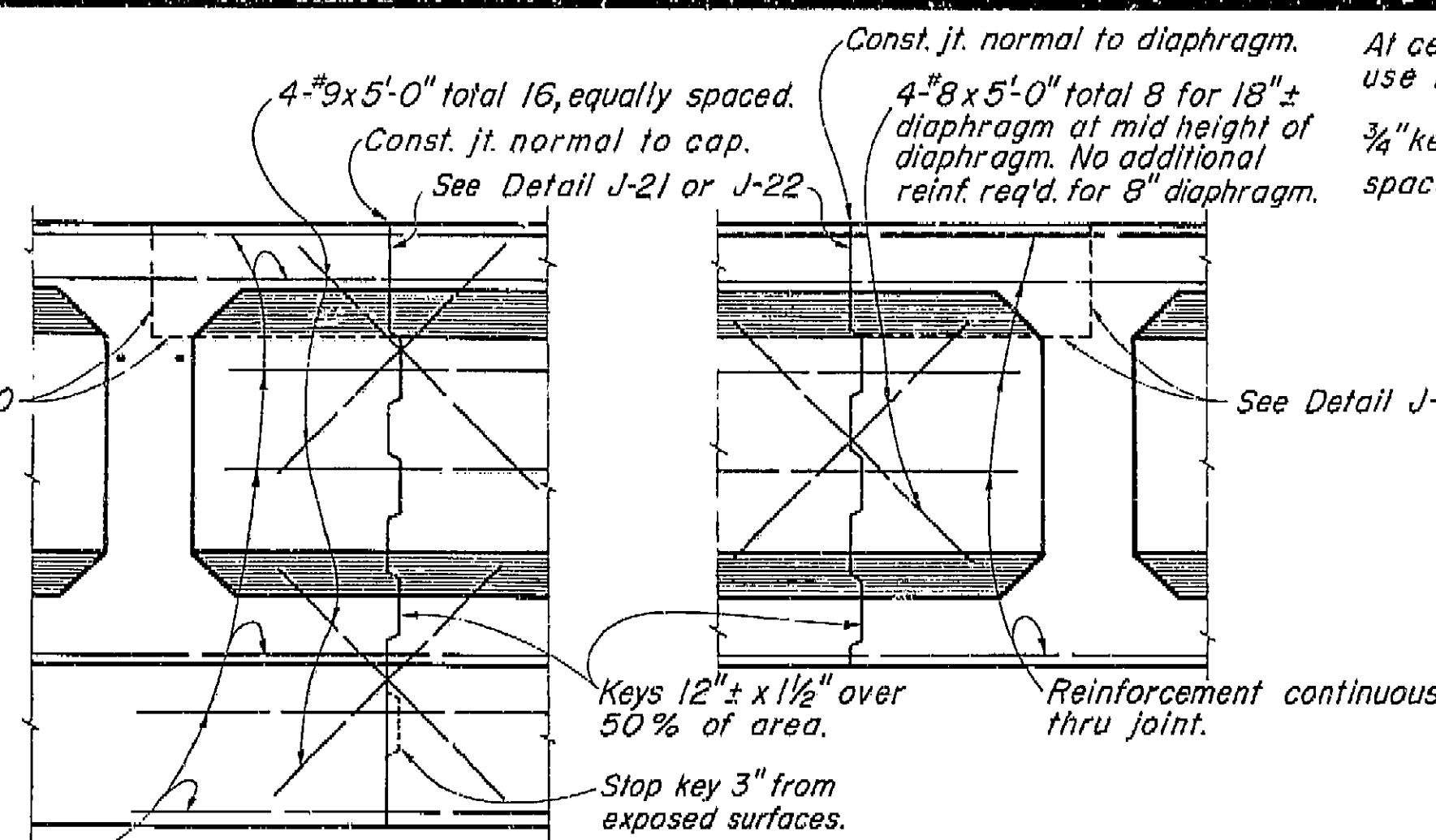
U-006-2 (6)  
F-006-2 (5)

FILE NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		321	424

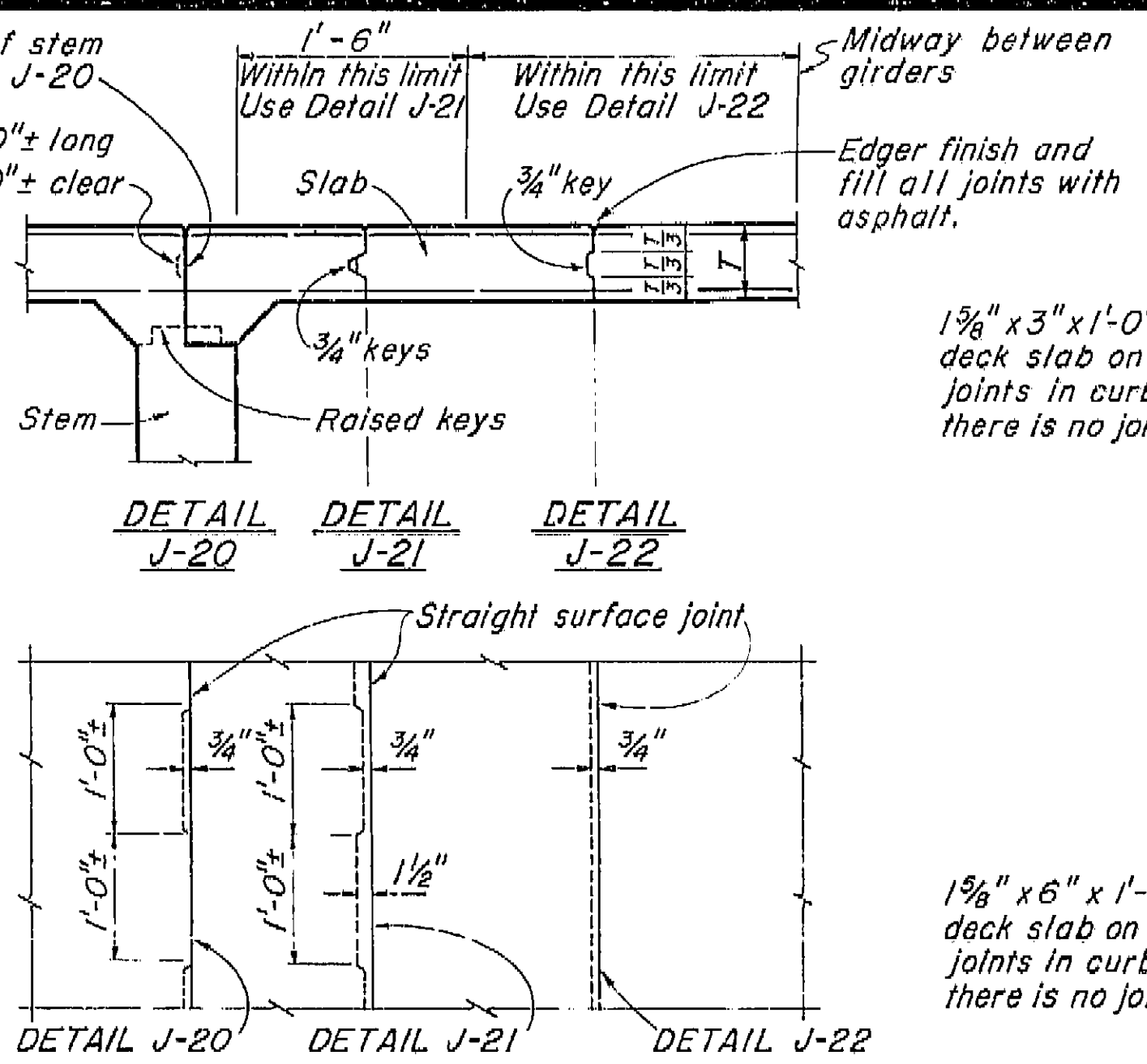
DATE APPROVED August 28, 1961  
BY [Signature]



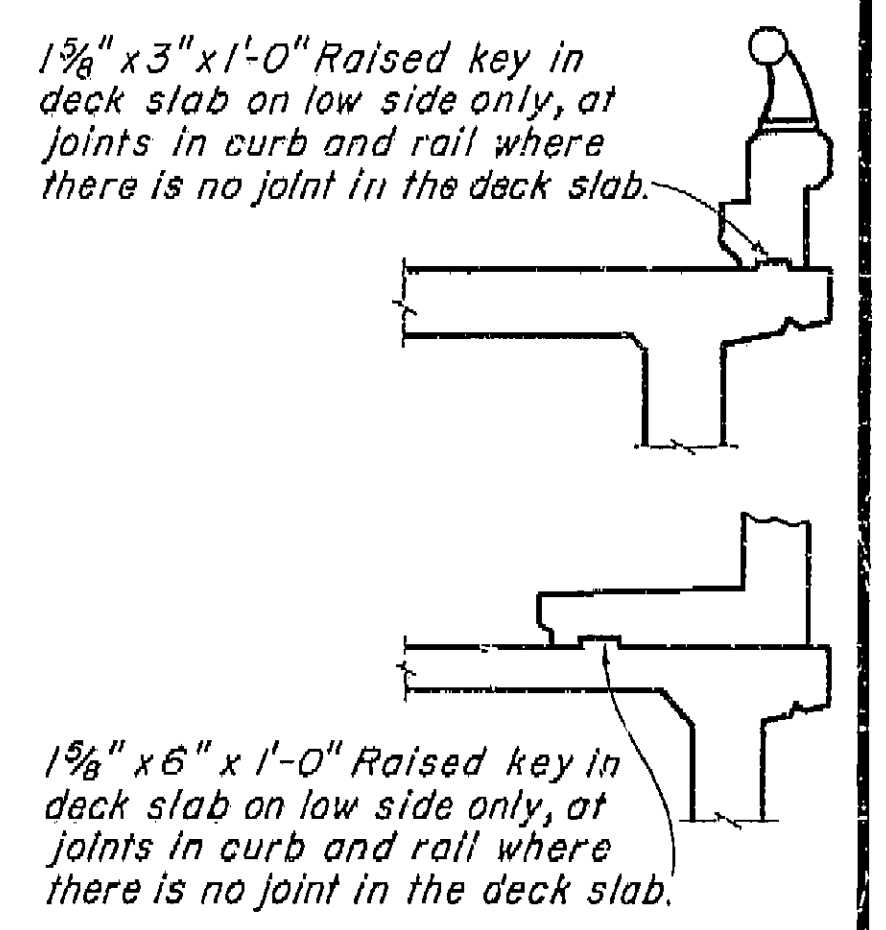
TRANSVERSE GIRDER CONSTRUCTION JOINTS  
DETAIL J-3



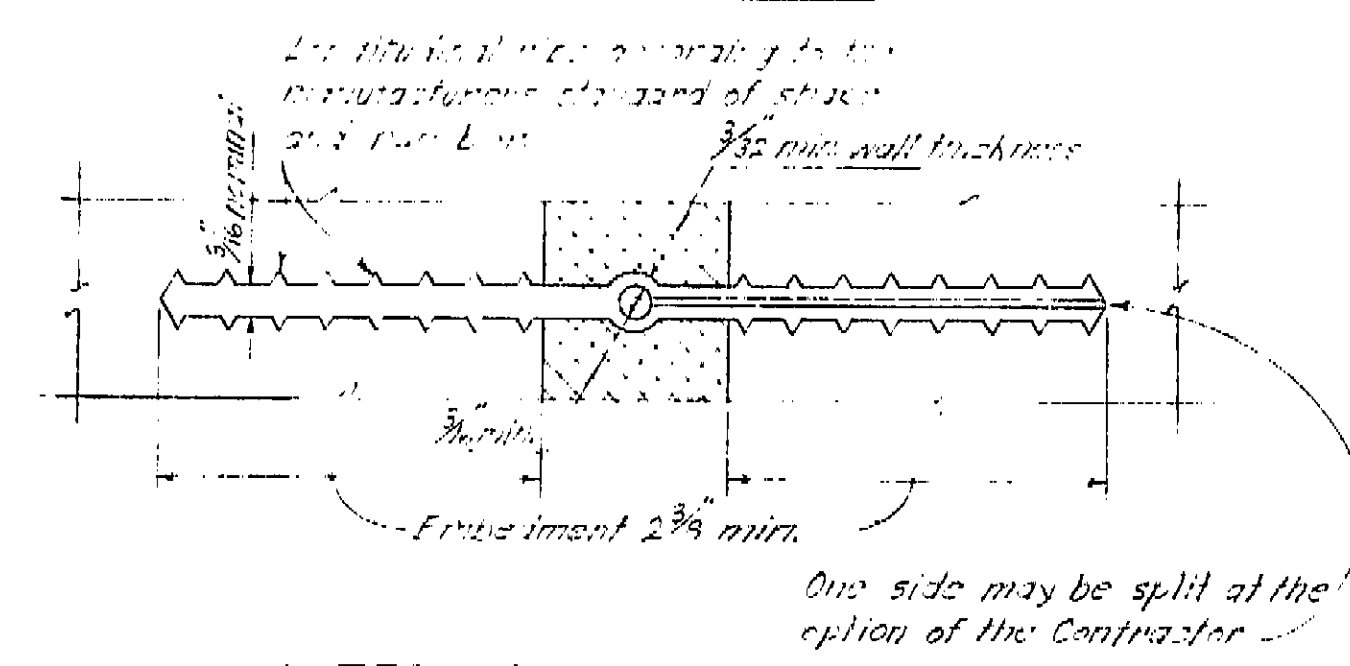
BENT CAP LONGITUDINAL CONSTRUCTION JOINTS  
DETAIL J-4



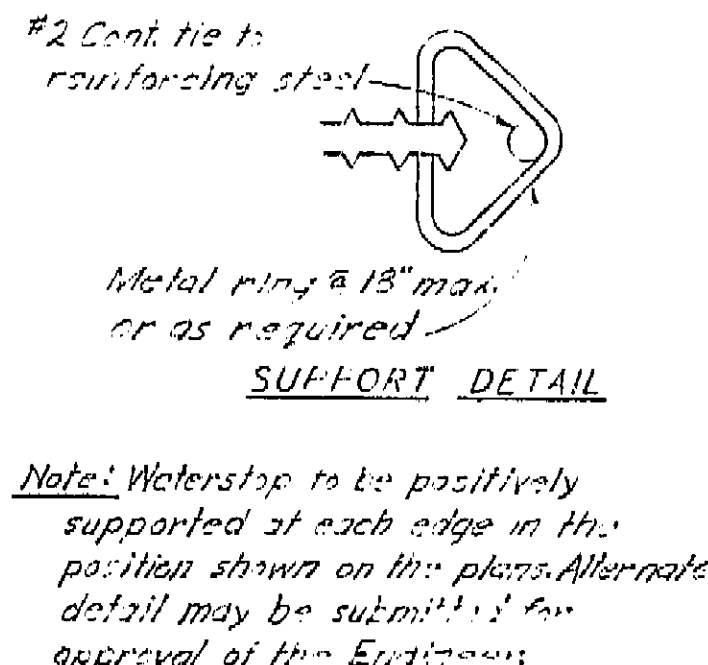
DECK SLAB LONGITUDINAL CONSTRUCTION JOINTS  
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



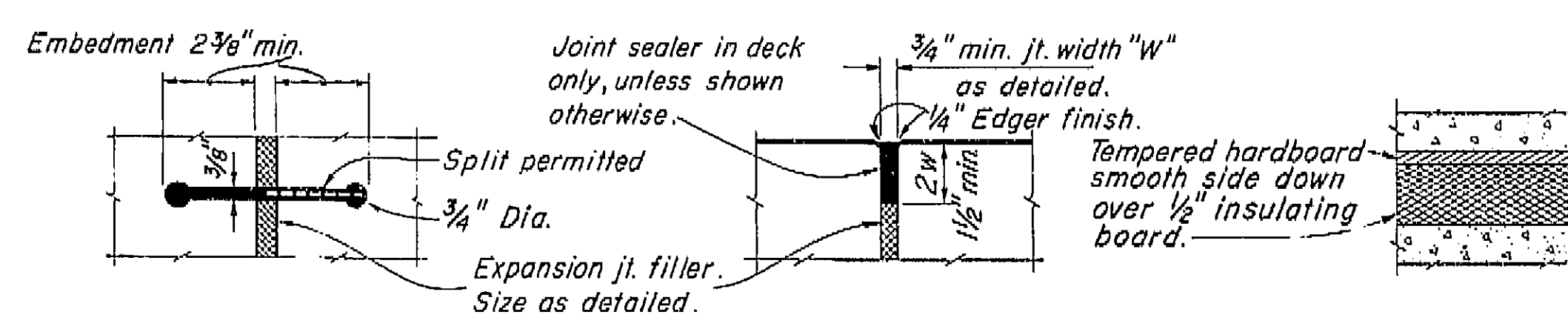
CURB AND SIDEWALK EXPANSION JOINT  
DETAIL C-1



ALTERNATIVE WATERSTOP



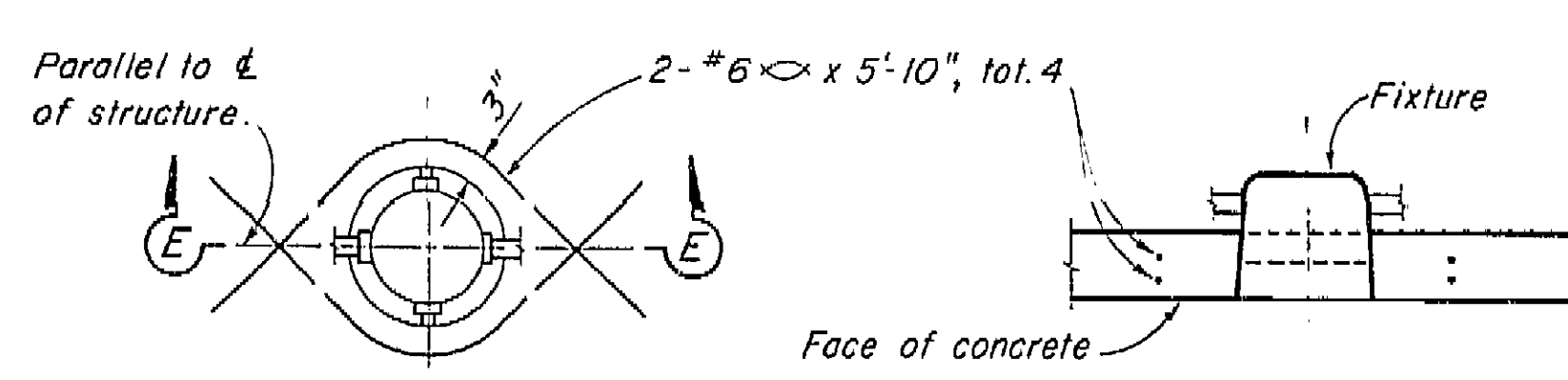
SUPPORT DETAIL



RUBBER WATERSTOP  
DETAIL W-1

SEALED EXPANSION JOINT  
DETAIL L-1

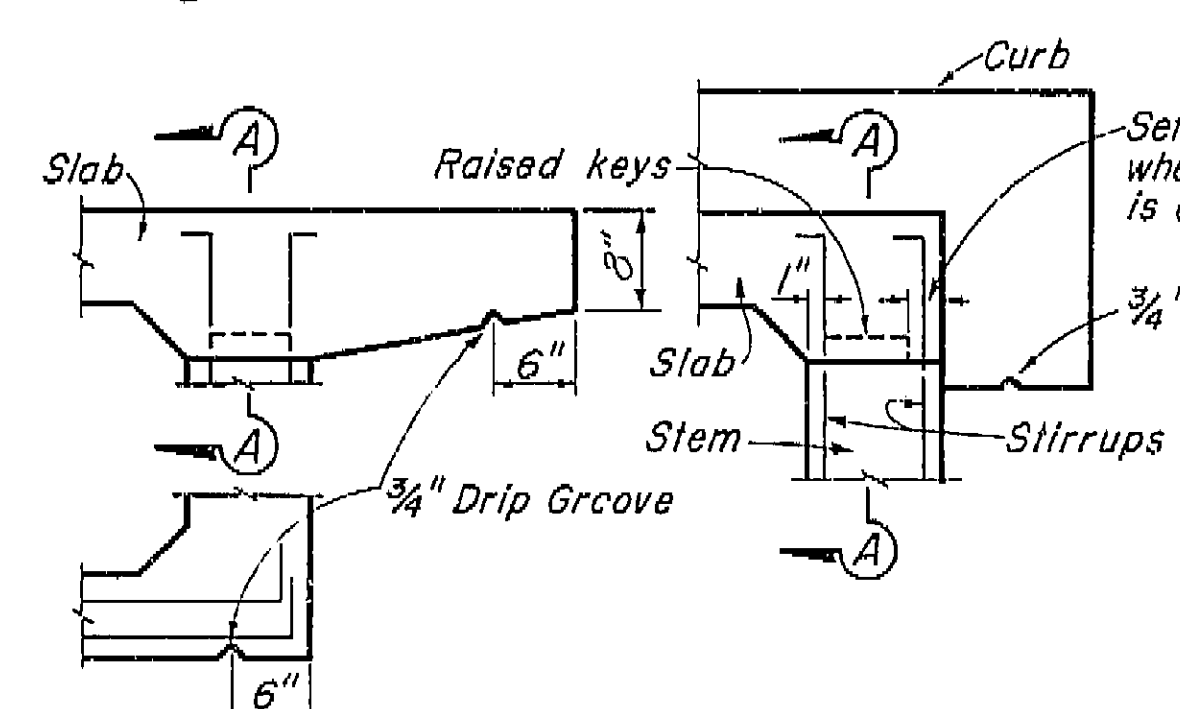
DETAIL M-1



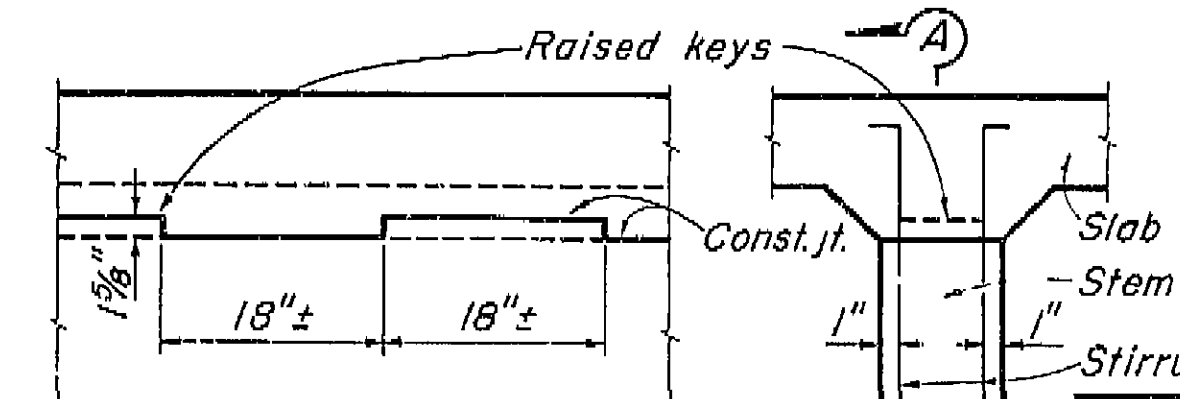
ADDED REINFORCEMENT

SECTION E-E

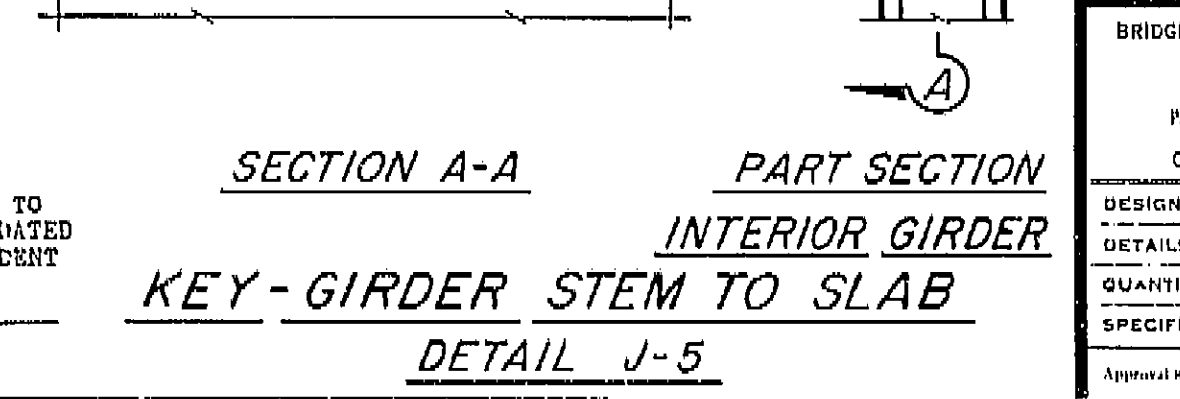
RECESSED SOFFIT LIGHT  
DETAIL F-1



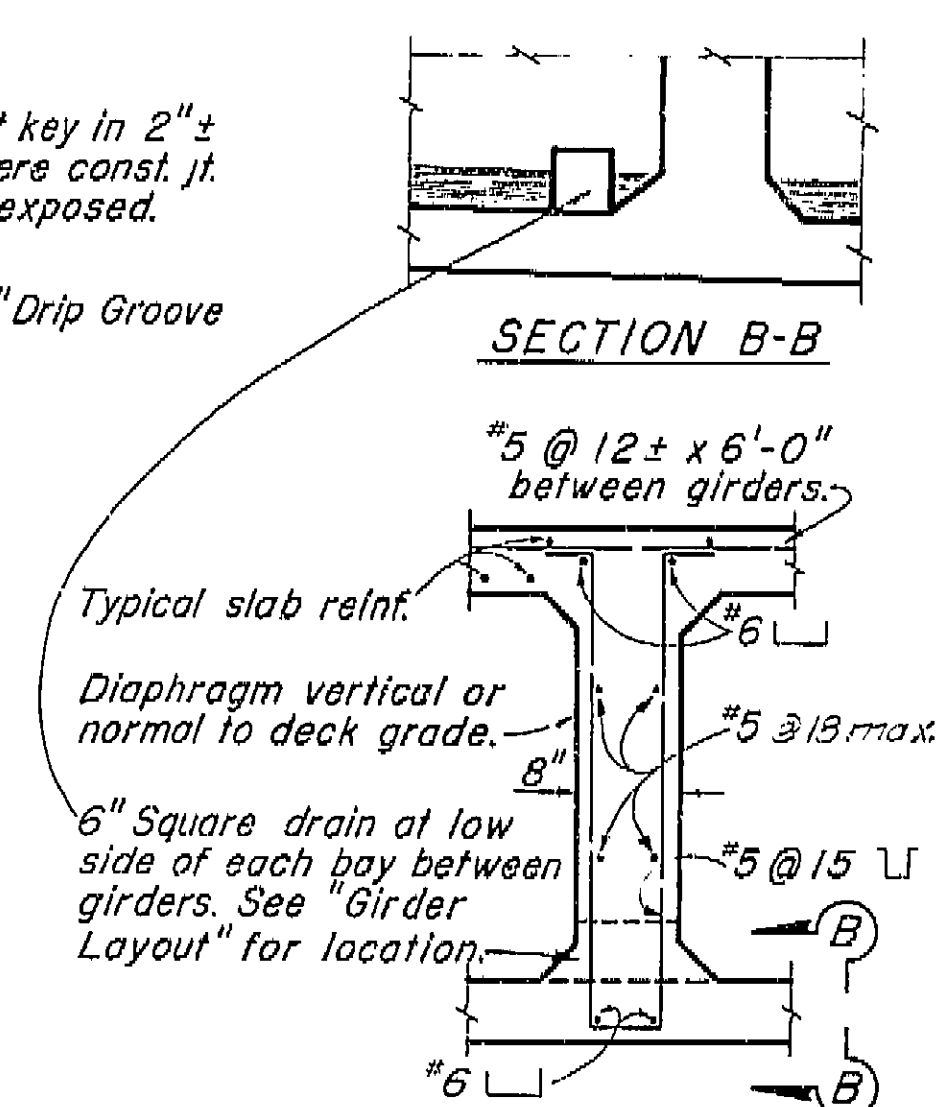
EXTERIOR GIRDER WITH SLAB CANTILEVER PART SECTIONS



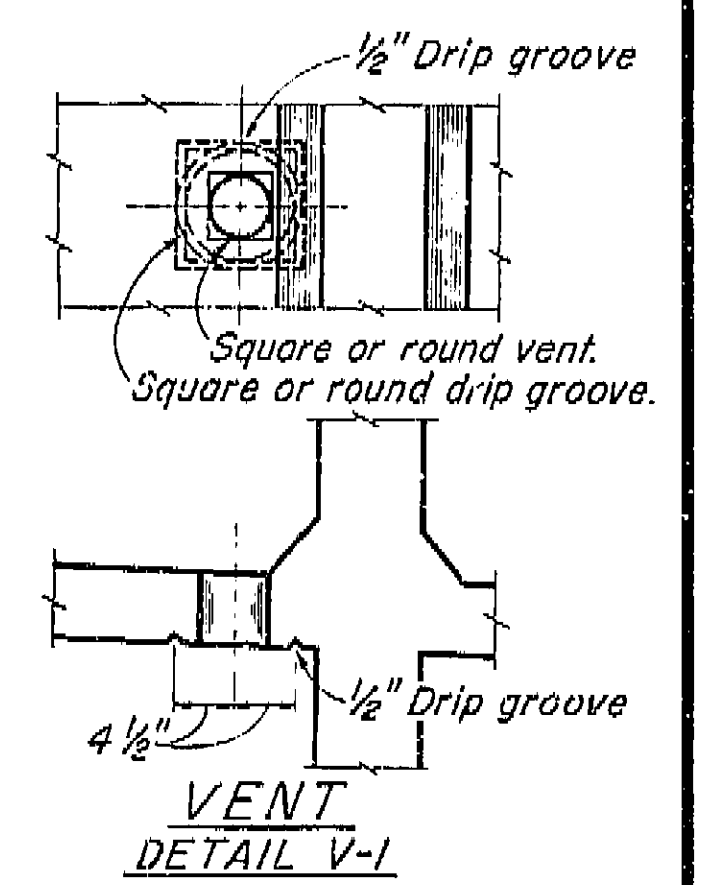
EXTERIOR GIRDER WITH CURB PART SECTIONS



KEY-GIRDER STEM TO SLAB DETAIL J-5



INTERMEDIATE DIAPHRAGM SECTION  
DETAIL D-1



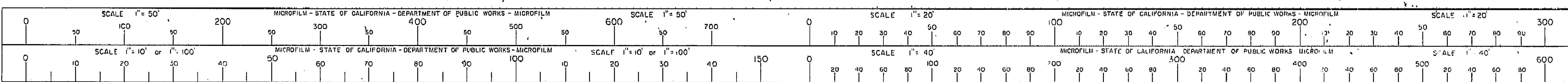
VENT DETAIL V-1  
Note: 5"± Vent in lower slab. Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

AS BUILT PLANS  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION			
Project Designer: [Signature]			
Chief Designer: [Signature]			
DESIGN	By: A.J. Jurach 8/61	Checked: D.L. Smith 8/61	
DETAILS	By: H.N. Dahl 8/61	Checked: D.L. Smith 8/61	
QUANTITIES	By: H.N. Dahl 8/61	Checked: D. Shelton 8/61	
SPECIFICATIONS	By: [Signature]	Checked: [Signature]	

11/60	ROUTE 99 ON RAMP O.C.
STANDARD DETAILS NO. 1 (BOX GIRDER)	
SCALE: Notes	BRIDGE 42-216 XS-16-22
DRAWING C-42216-13	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 10/12/62 SIGNATURE [Signature] TITLE [Title]





37

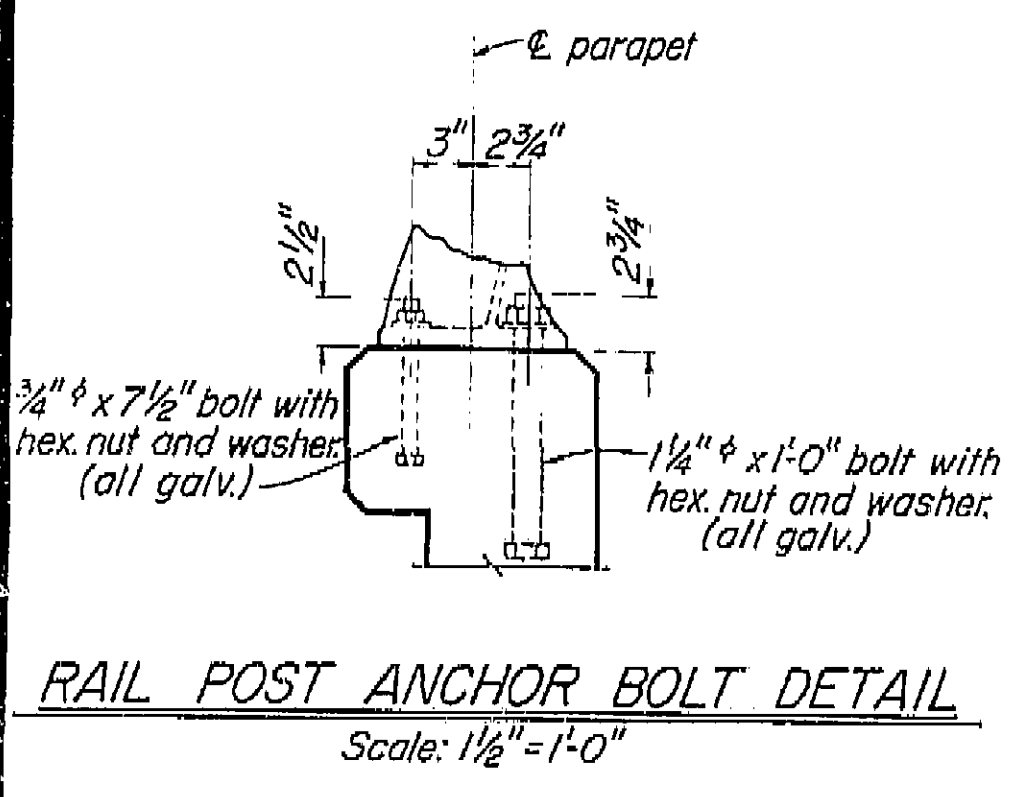
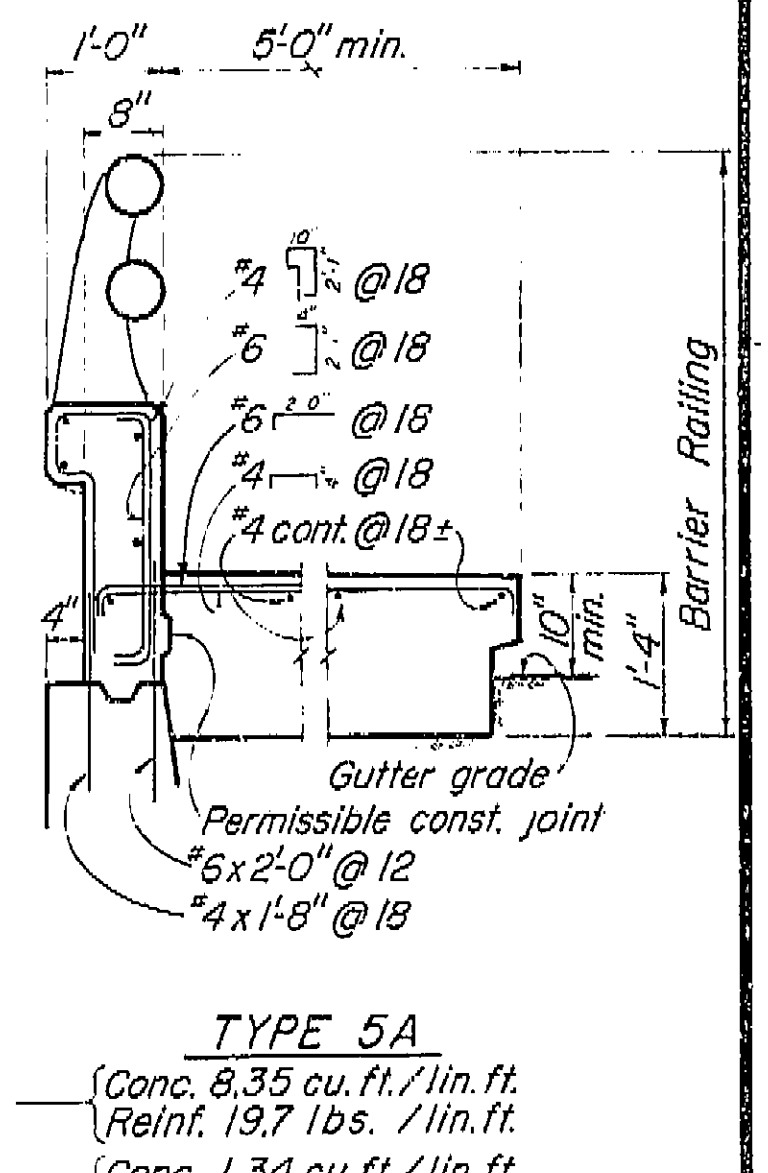
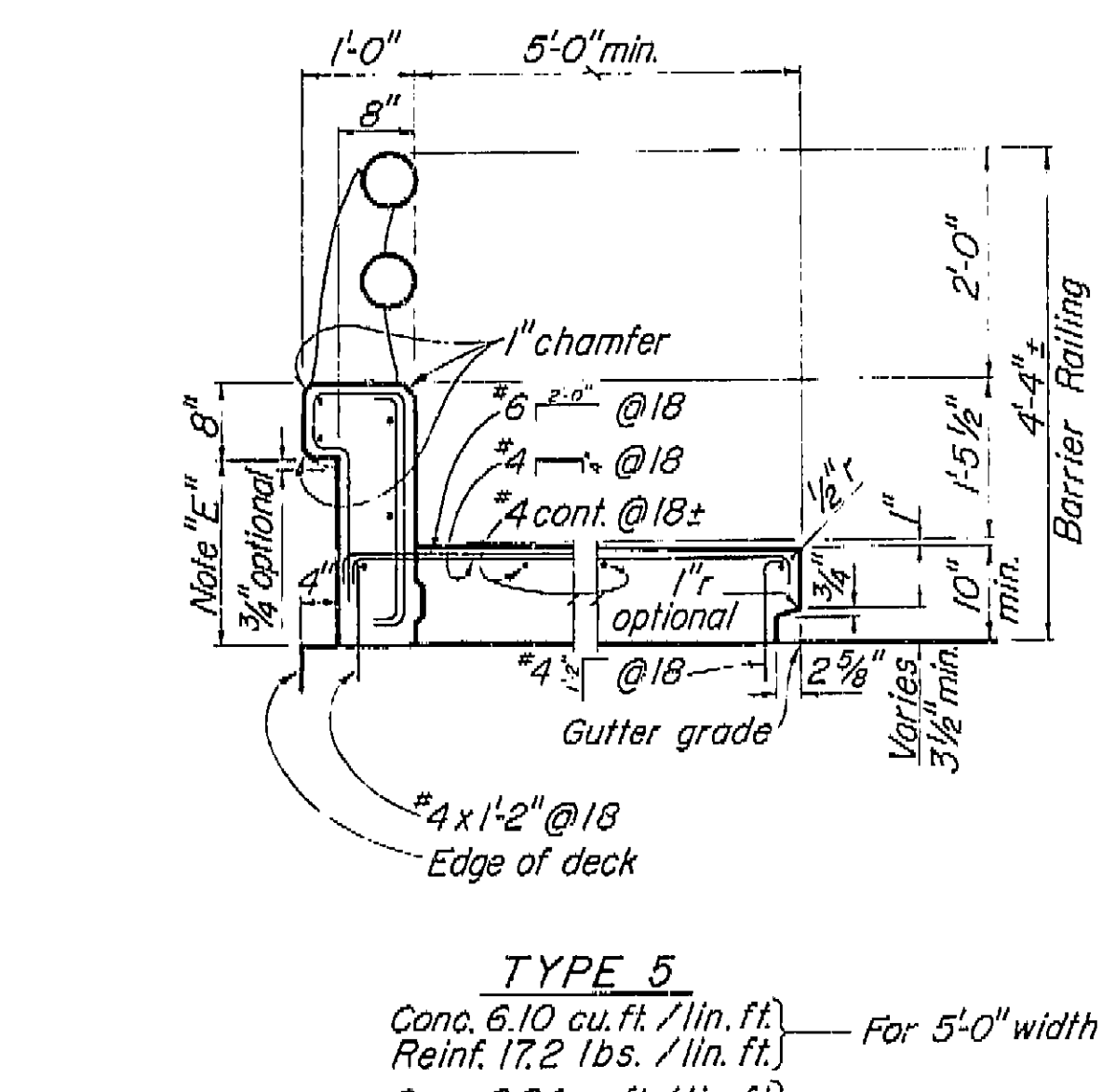
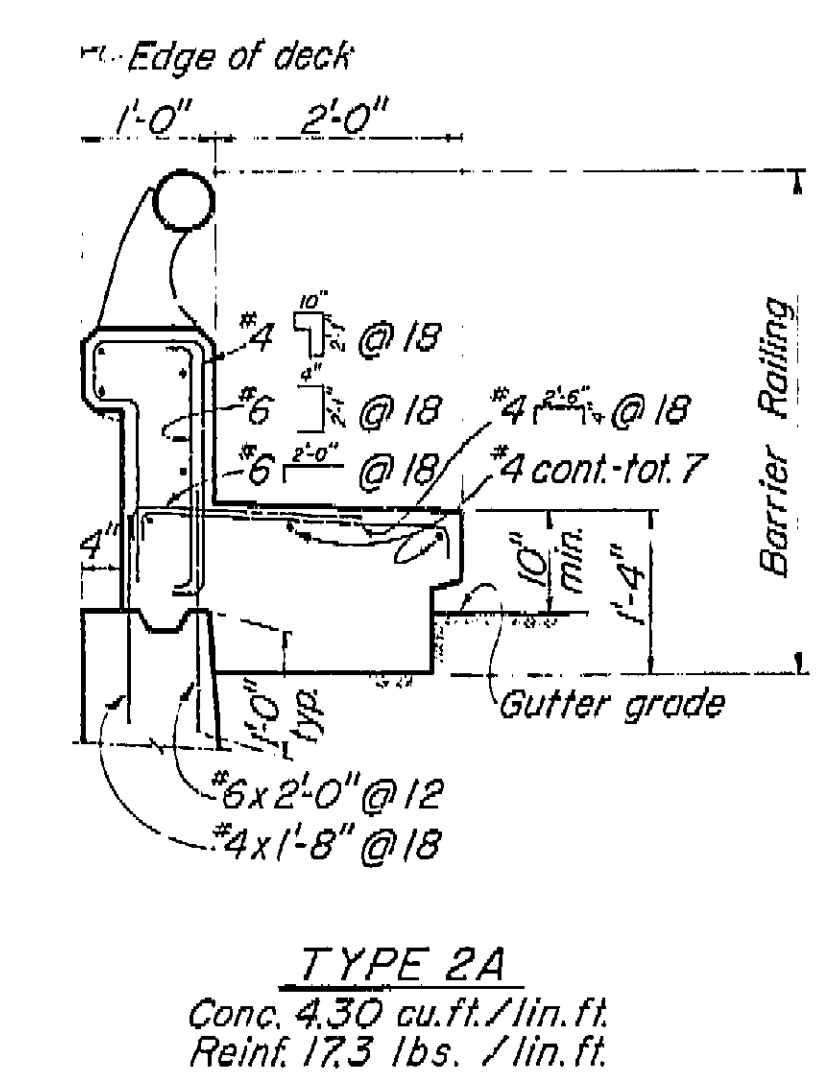
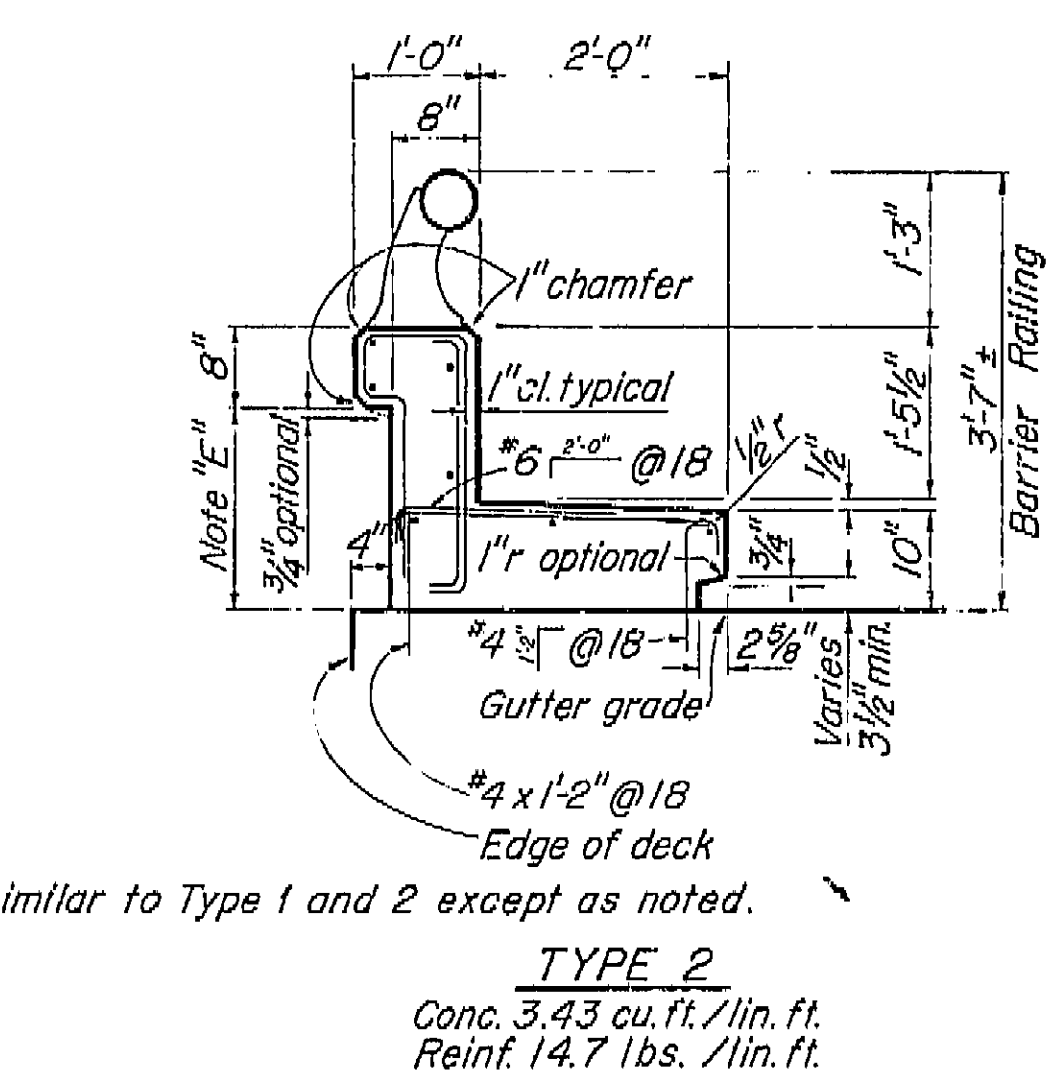
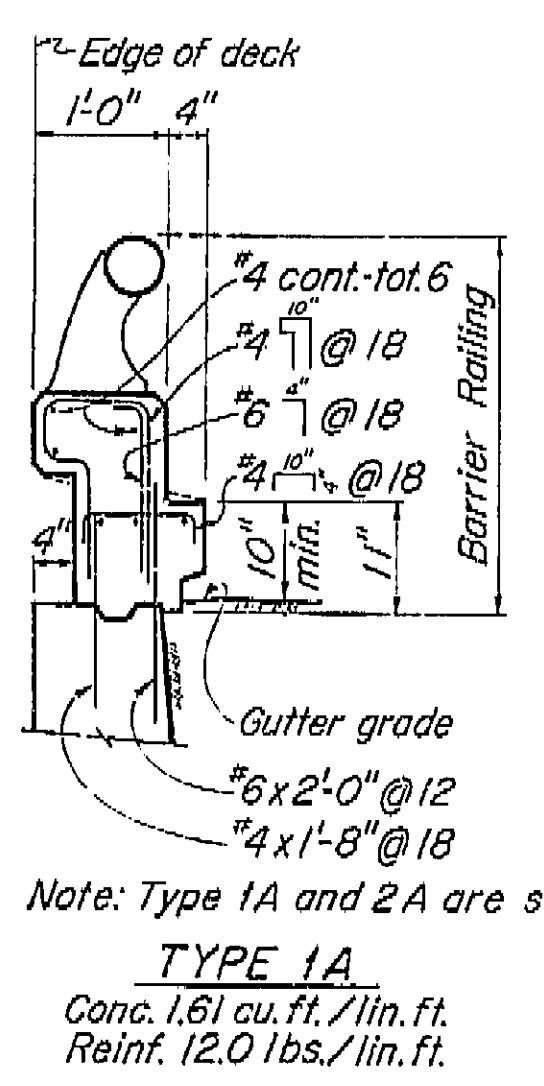
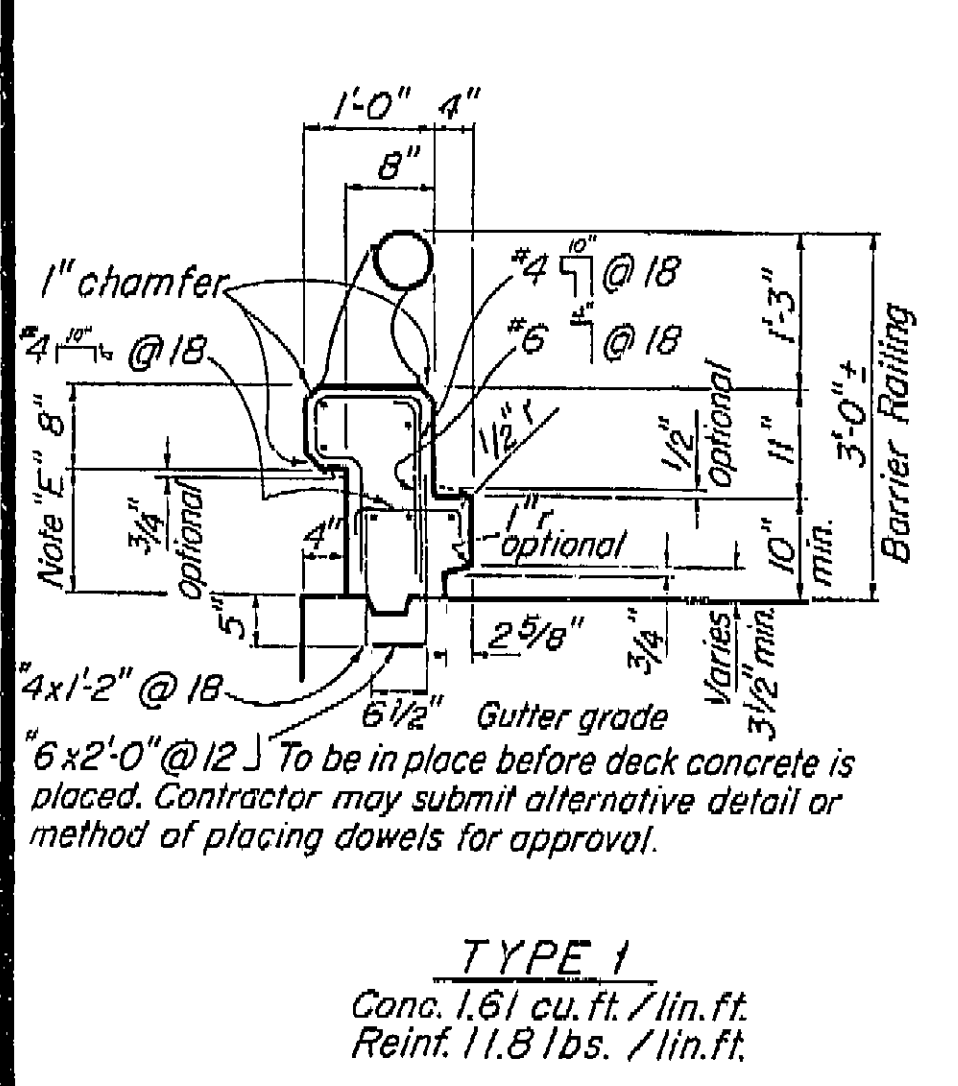
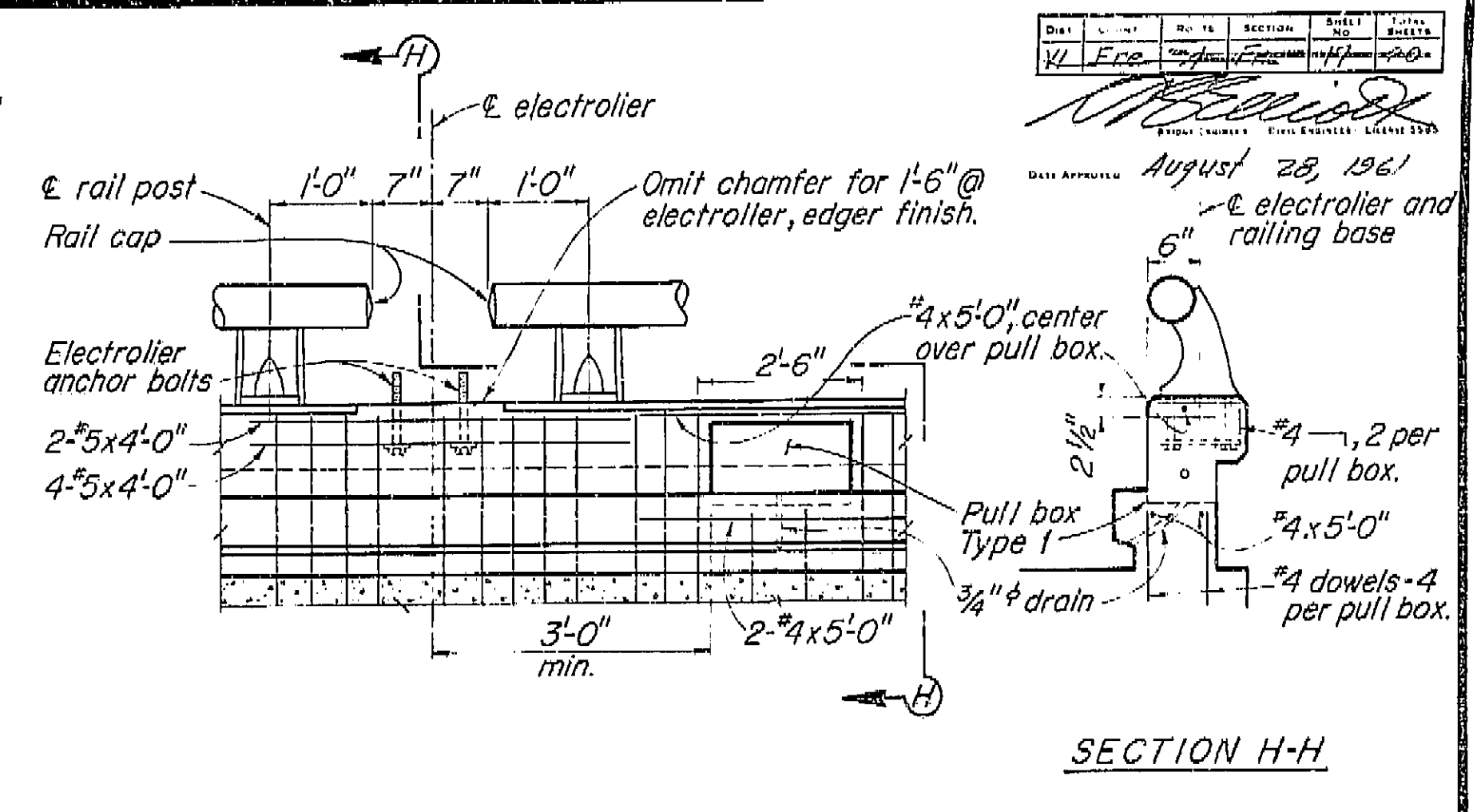
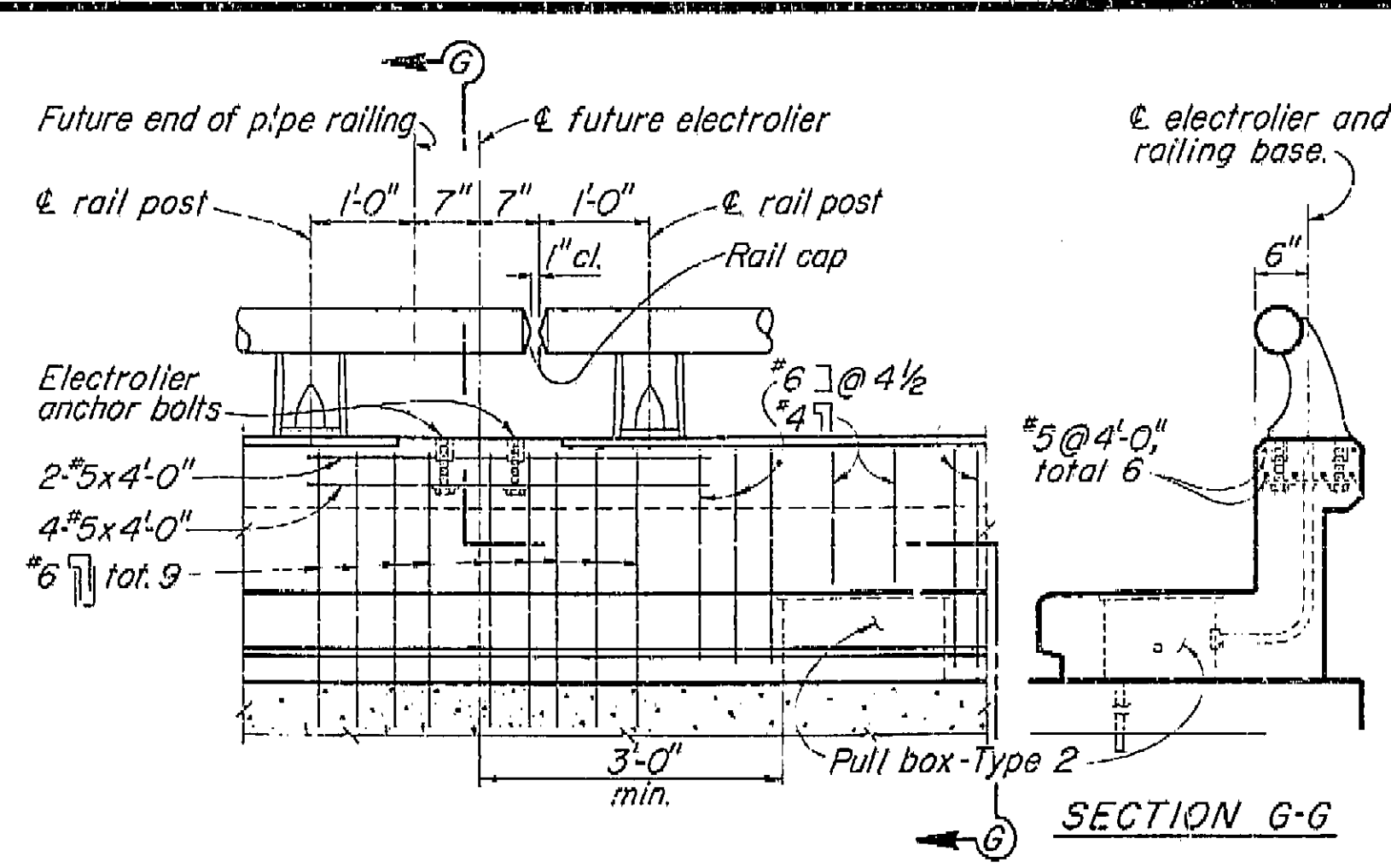
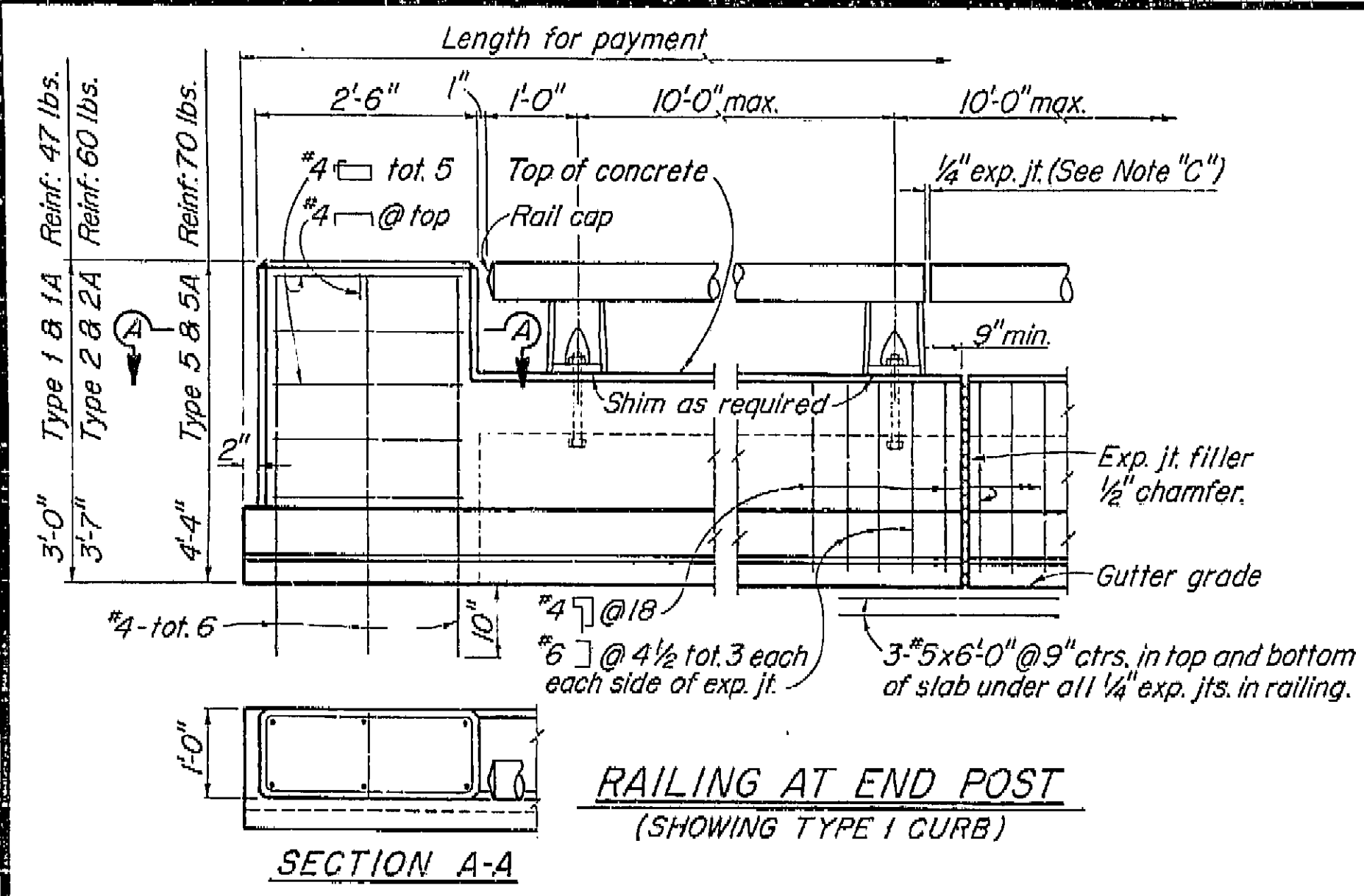
STANDARD	11-11-11
Examined by <i>W. W. W. W.</i>	
DATE	<i>11-11-11</i>
BY	<i>W. W. W. W.</i>
REMARKS	<i>See Richmond No. 11-11-11</i>
APPROVED	<i>W. W. W. W.</i>

*Richmond No. 11-11-11*

*6729*







AS BUILT PLANS  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60001062

- Note: A. Railing shall conform to horizontal and vertical alignment.  
B. Posts shall be normal to railing.  
C. Curb and wall exp. jts. to be located at all deck joints, at piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.  
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.  
E. Dimension will vary with cross-slope of deck.  
F. Walls are to be backfilled before railing is placed.

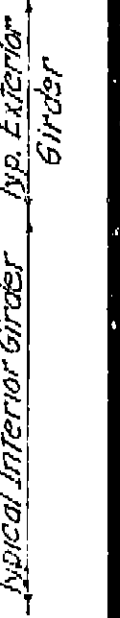
G. Clearance to reinforcing steel in curb and railing to be 1"

BRIDGE DEPARTMENT DESIGN SECTION		10/60	
Section Supervisor: <i>H. J. Jurach</i>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN: <i>H. J. Jurach</i>		ROUTE 99 ON RAMP O.C.	
DETAILS: <i>H. M. Dahl</i>		BARRIER RAILING SHEET 1	
QUANTITIES: <i>H. M. Dahl</i>		Except as noted SCALE 3/4" = 1'-0" BRIDGE 42-216 XS-9-63 FILE DRAWING C-42216-17	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE: *10/1/60* SIGNATURE: *H. J. Jurach* TITLE: *Section Supervisor*







STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
99 ROUTE <del>4</del> ON RAMP O.C.			
BOTTOM REINFORCEMENT			
SCALE None	BRIDGE 42-216	FILE	DRAWING C-42216-12

SCALE 1" = 50' 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

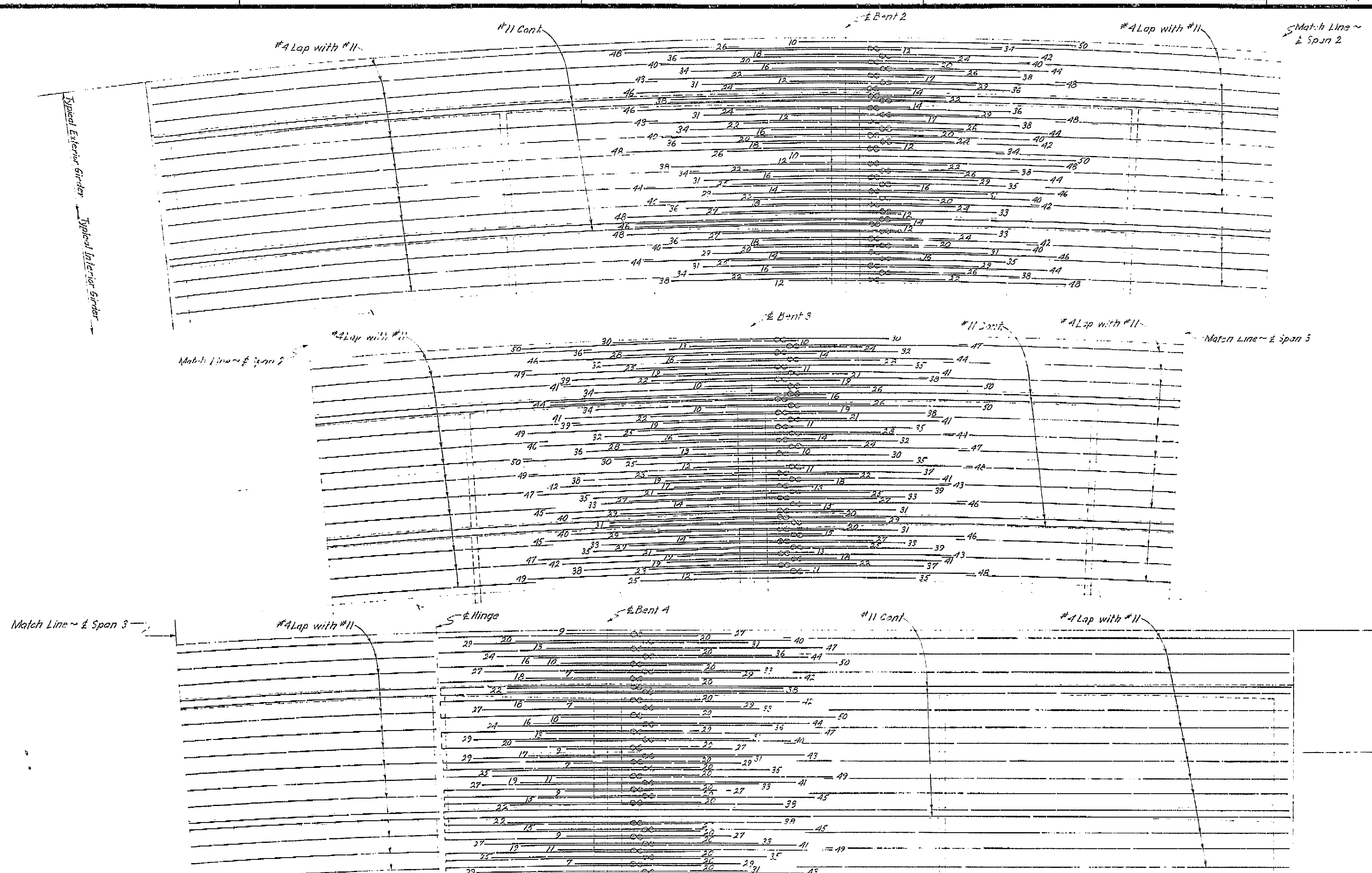
SCALE 1" = 10' or 1" = 100' 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1" = 40' 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM





**AS BUILT PLANS**  
Contract No. 62-6T13C3  
Date Completed  
Document No. 60001062

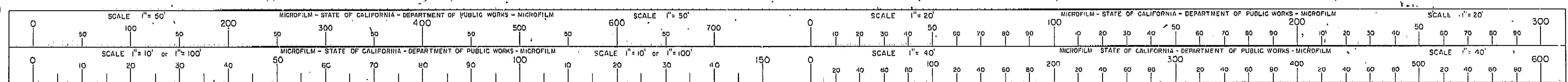
Notes: All reinforcing #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from E of Bent. No splicing of #11 bars permitted near E Bent. All splices of bars in bundles shall be made with 35 diameter lap. --- Indicates bundled bars.

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: <i>Ed. J. Gutzwiller</i>			
DESIGN	By: <i>P. J. Juvack</i>	Checked: <i>D. D. Smith</i>	Date: <i>7/61</i>
DETAILS	By: <i>H. N. Dahl</i>	Checked: <i>D. D. Smith</i>	Date: <i>7/61</i>
QUANTITIES	By: <i>H. N. Dahl</i>	Checked: <i>D. D. Smith</i>	Date: <i>7/61</i>
SPECIFICATIONS	By: <i>H. N. Dahl</i>	Checked: <i>D. D. Smith</i>	Date: <i>7/61</i>
Approval Recommended by: <i>[Signature]</i>			

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
ROUTE 99 ON RAMP O.C.			
TOP REINFORCEMENT			
SCALE: None	BRIDGE: 42-216	FILE	DRAWING: C-42216-11

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 1-12-62 SIGNATURE: *[Signature]* TITLE: *[Title]*

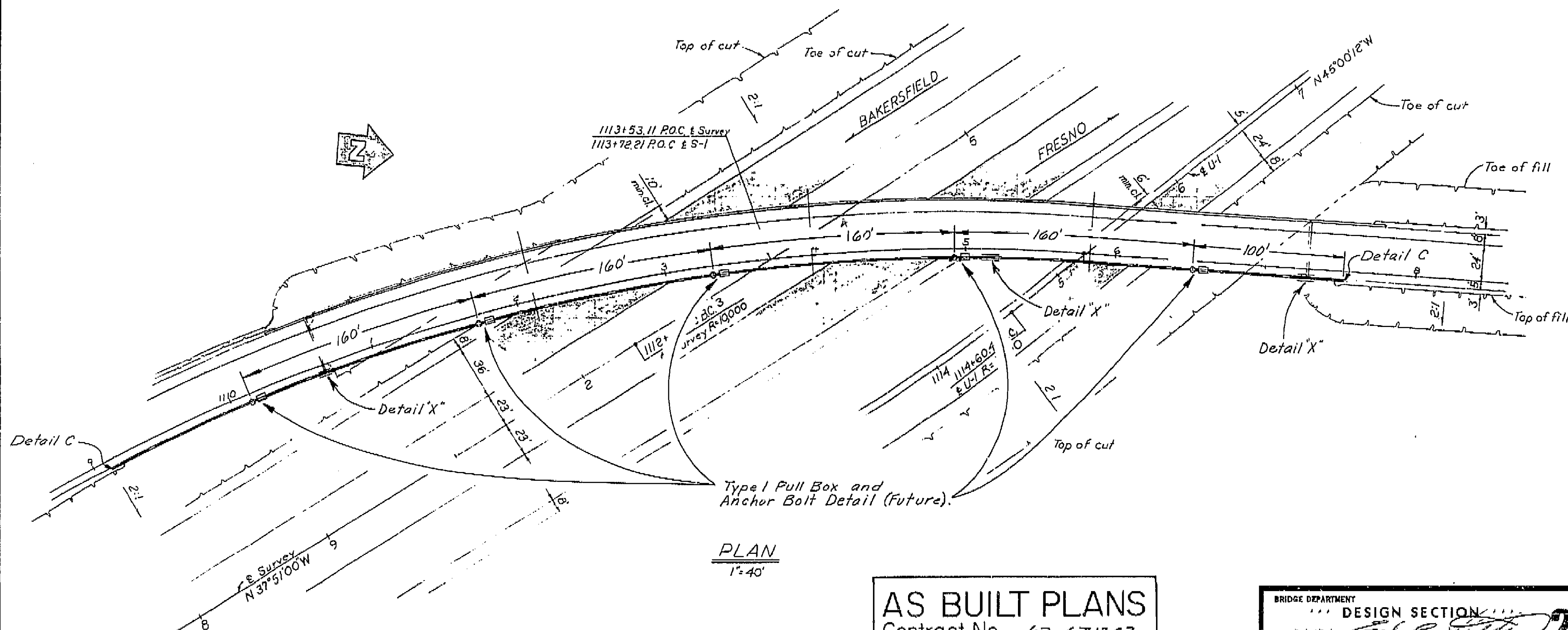
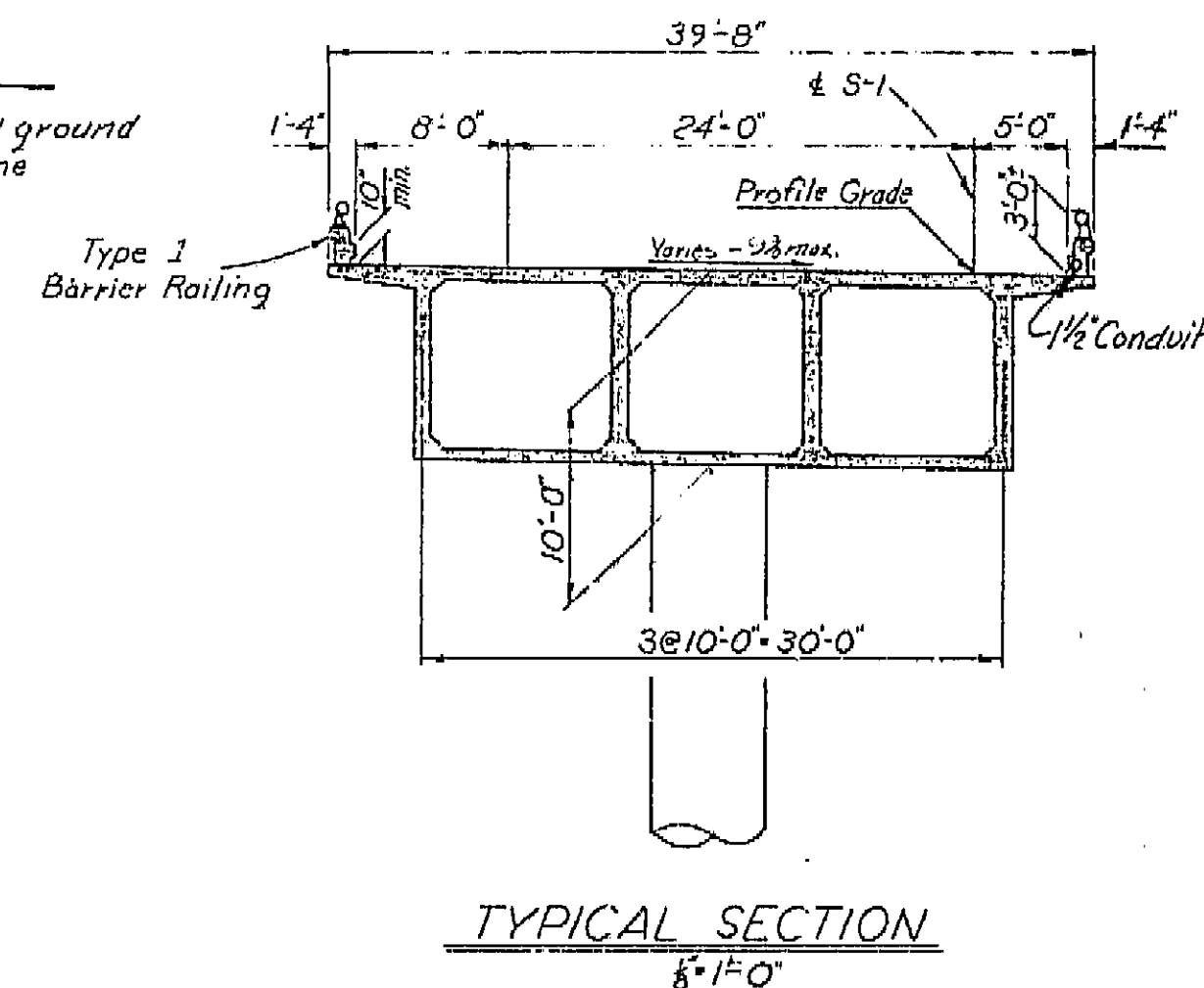
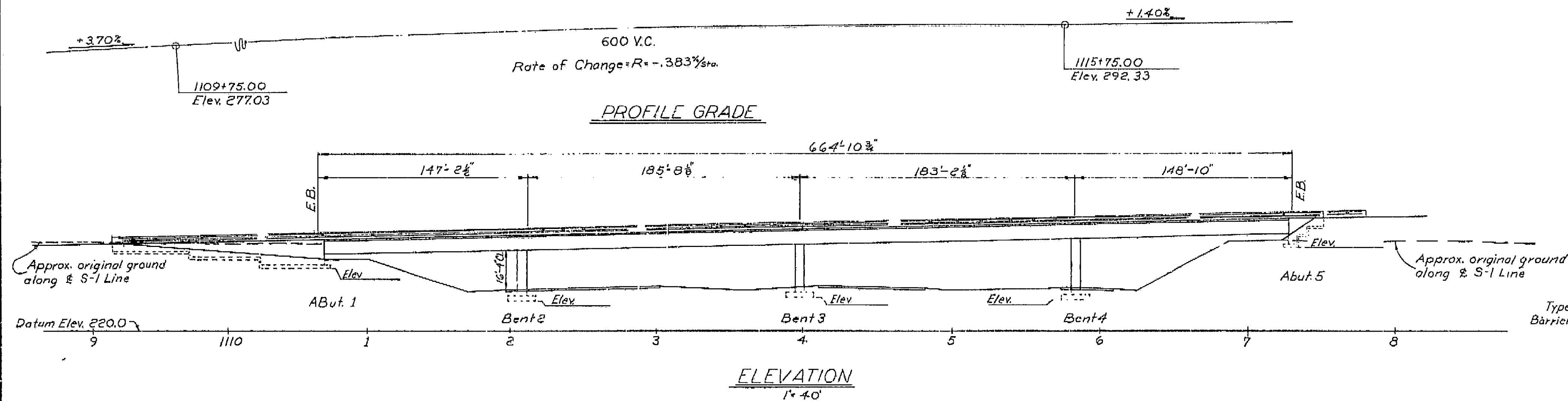




VI Fre 99 U-006-2 (6)  
A-006-2 (5)

PROJ. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			328	428

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	2	20	20
DISTRICT ENGINEER August 28, 1961 DATE APPROVED CALIF. DEPT. OF PUBLIC WORKS					



Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4

AS BUILT PLANS  
Contract No. 62-6713C3  
Date Completed  
Document No. 60001062

BRIDGE DEPARTMENT	
DESIGN SECTION	
Project Designer	
Chief Designer	
DESIGN	By R.J. Jungch 1/80
DETAILS	By M. Camacho 1/80
QUANTITIES	By
ELECTRICAL	By
Approved Recommended by	
Engineer of Design	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
ROUTE 4 ON RAMP O.C. TO BE LOCATED AT THE INTERSECTION OF KIRK AND FLORENCE AVE. IN THE CITY OF FRESNO	
LIGHTING PLAN	
SCALE As Noted	BRIDGE 42-216
FILE	DRAWING 42216-1/10

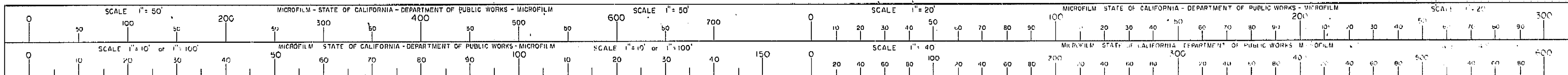
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
D. C. Schell	4/6	E. W. Taylor	4/6			4/6

Disregard prints bearing earlier dates

PREL. DRAWING NO. 42216-1/10

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE





21 Notes  
57 R.T.K.  
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VI Fre 99

U-006-2(6)  
F-006-2(5)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			322	424

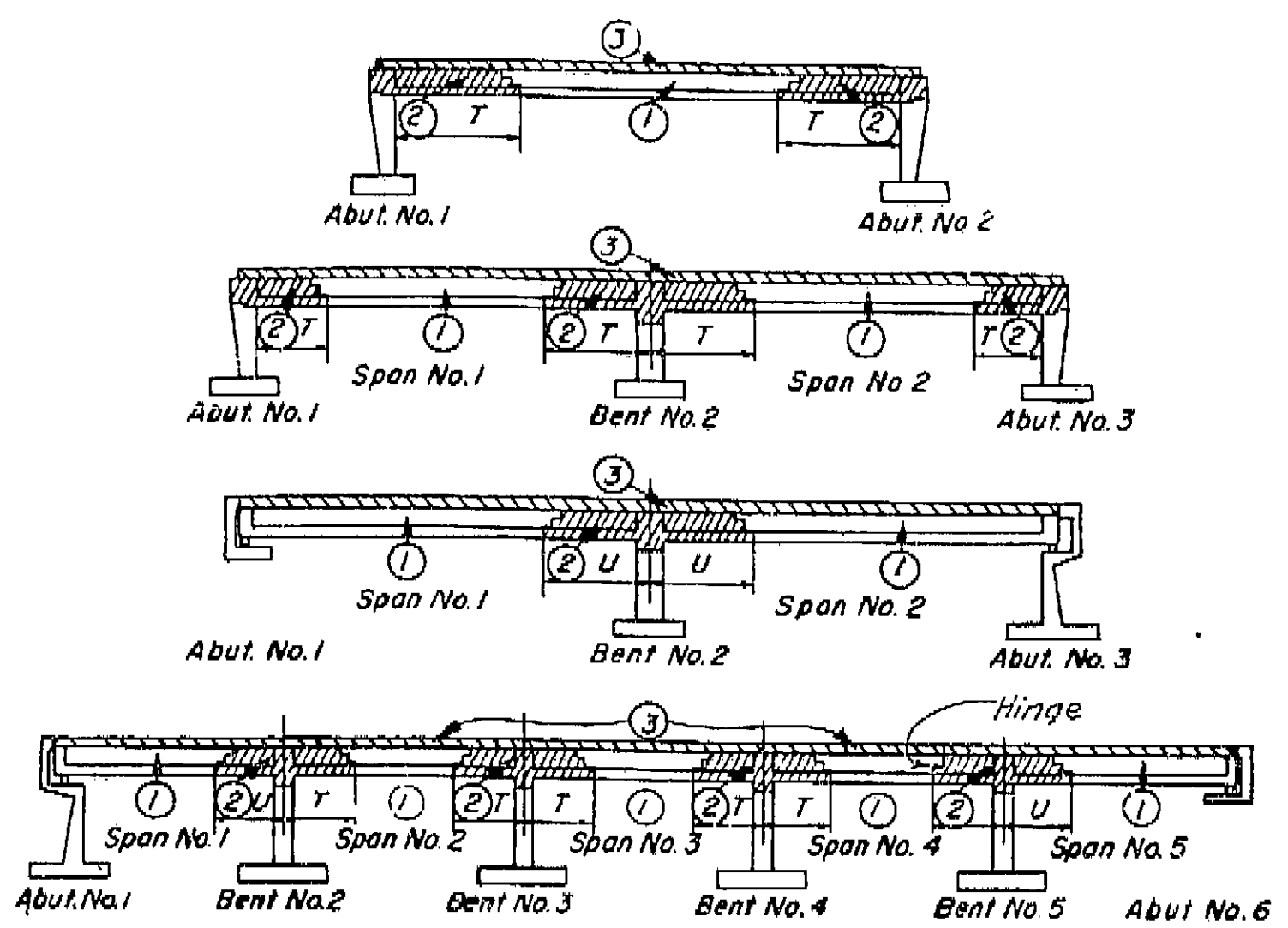
Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre			322	424

BRIDGE ENGINEER: *[Signature]*  
CIVIL ENGINEER: LICENSE 8848  
DATE APPROVED: August 28 1961

GENERAL NOTES

**Specifications:**  
**Design:** A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.  
**Construction:** Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.  
**Live Loading:** H20-S16-44 and alternative.  
**Unit Stresses:**  
**Reinforced Concrete:**  
 $f_s = 20,000$  p.s.i.  
 $n = 10$   
 $f_c = 1,200$  p.s.i.

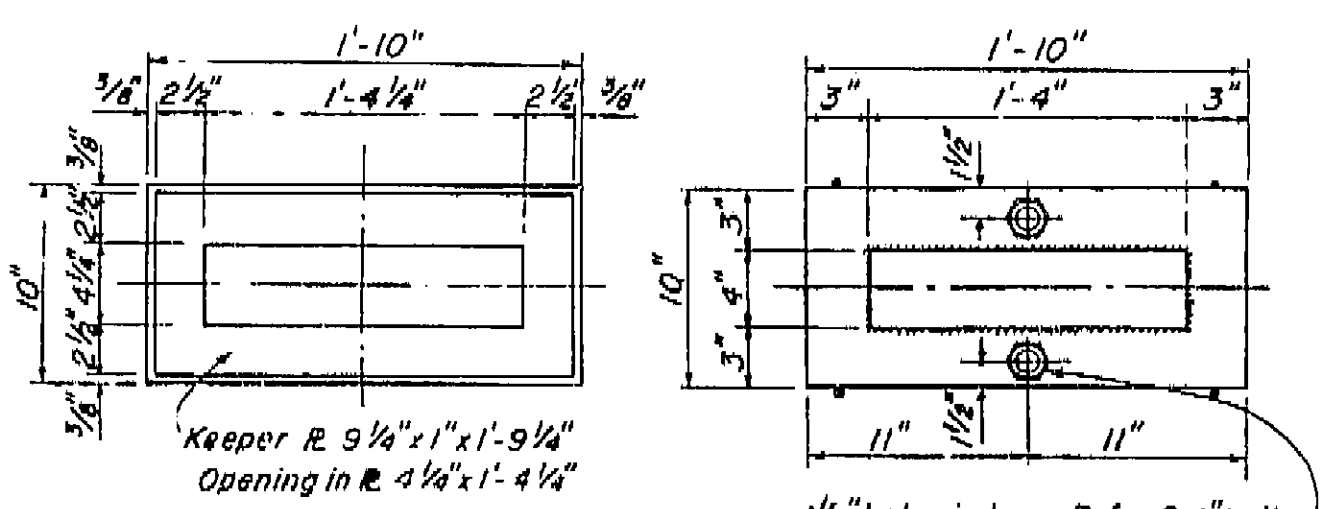
**Footing Pressure:** 4.0 tons p.s.f. @ Bents  
2.5 tons p.s.f. @ Abuts.



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

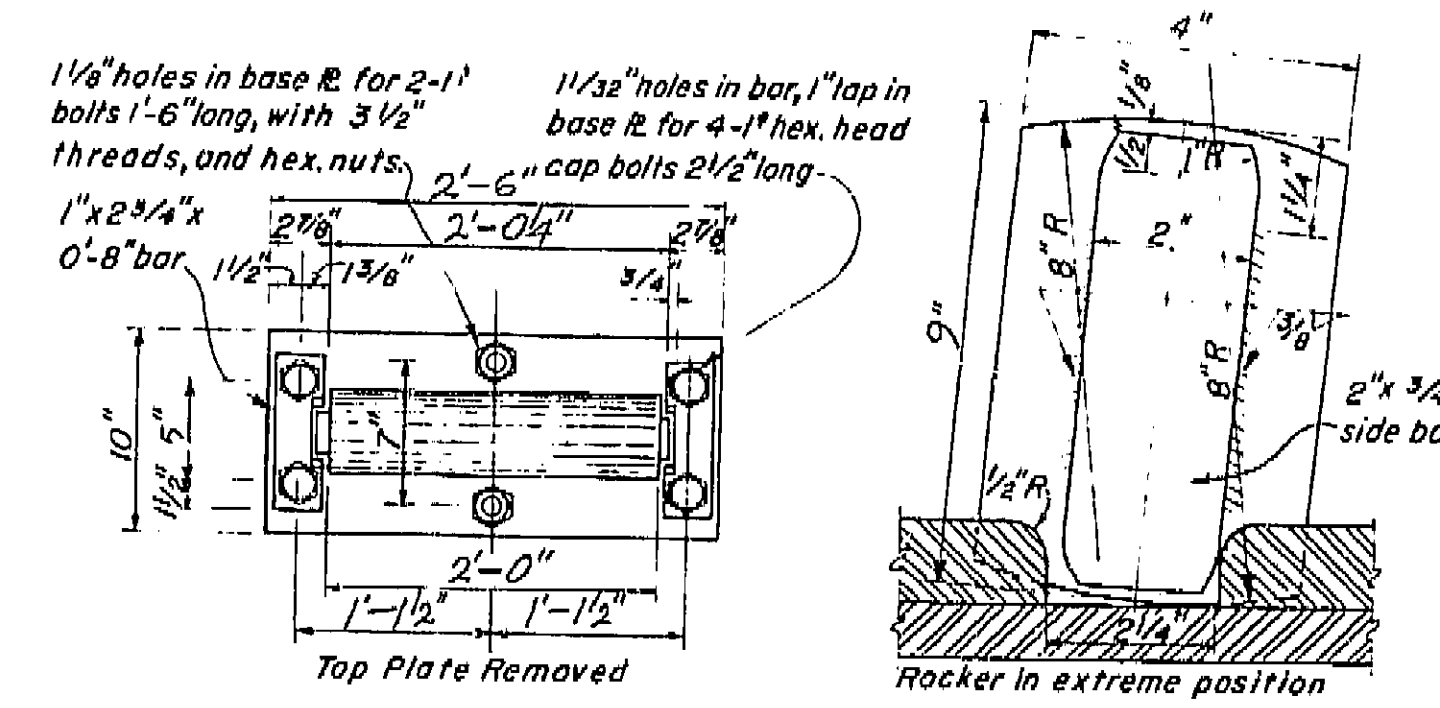
Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.  
Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).  
 $T = \frac{1}{2}$  span length  
 $U = \frac{1}{4}$  span length  
For any deviation from the above the contractor shall submit a diagram to the Engineer for his approval.

AS BUILT PLANS  
Contract No. 62-GT13C3  
Date Completed  
Document No. 60001062



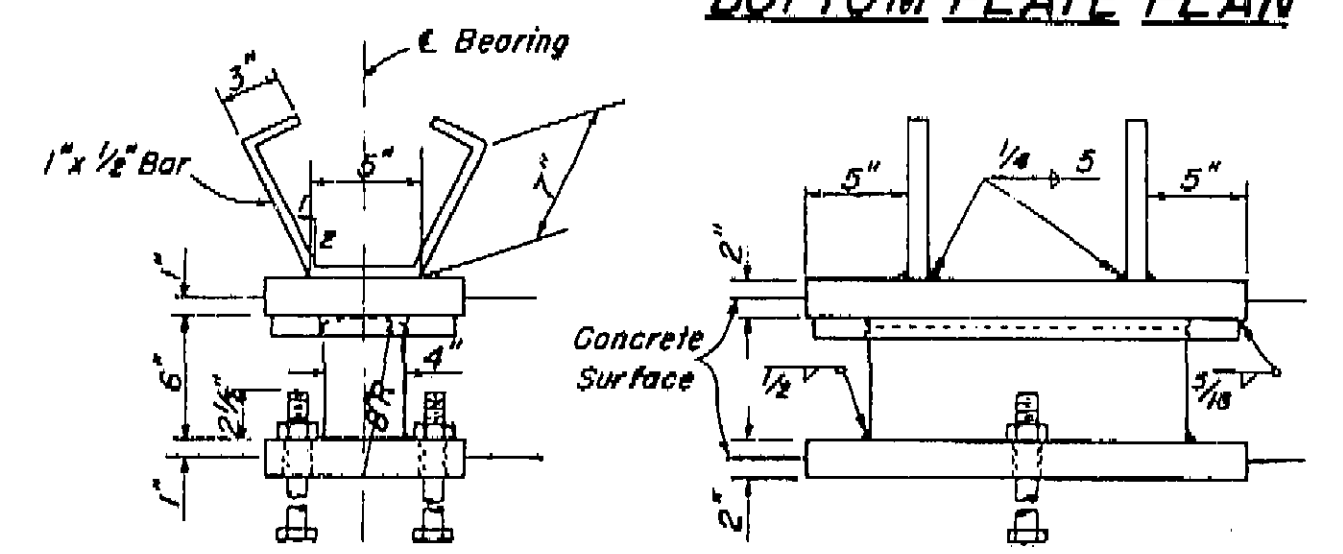
TOP PLATE

BOTTOM PLATE PLAN

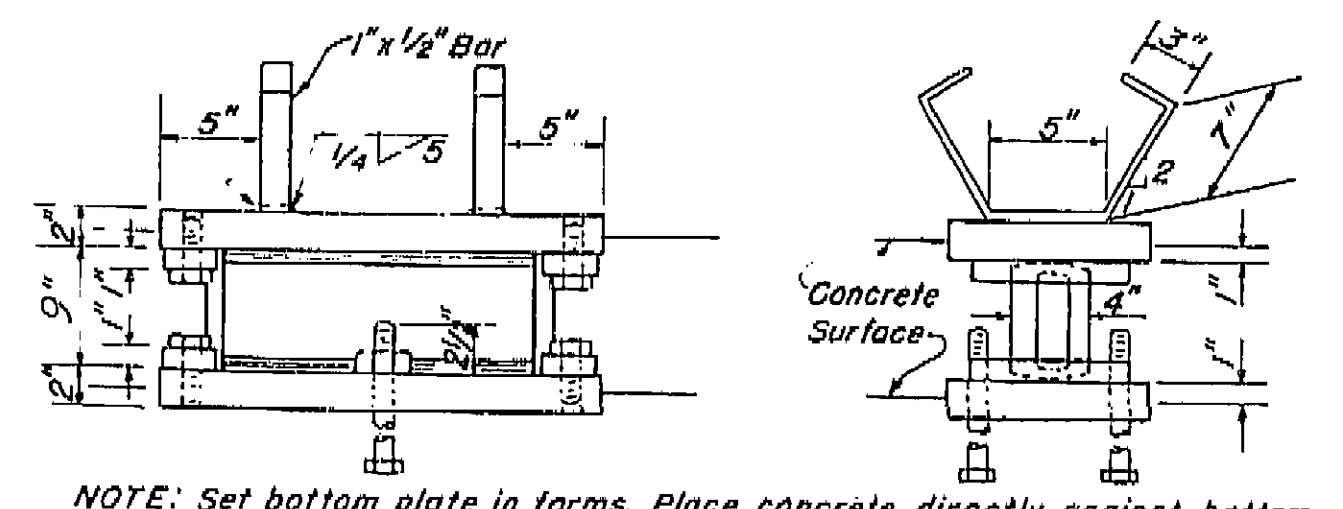


BOTTOM PLATE PLAN

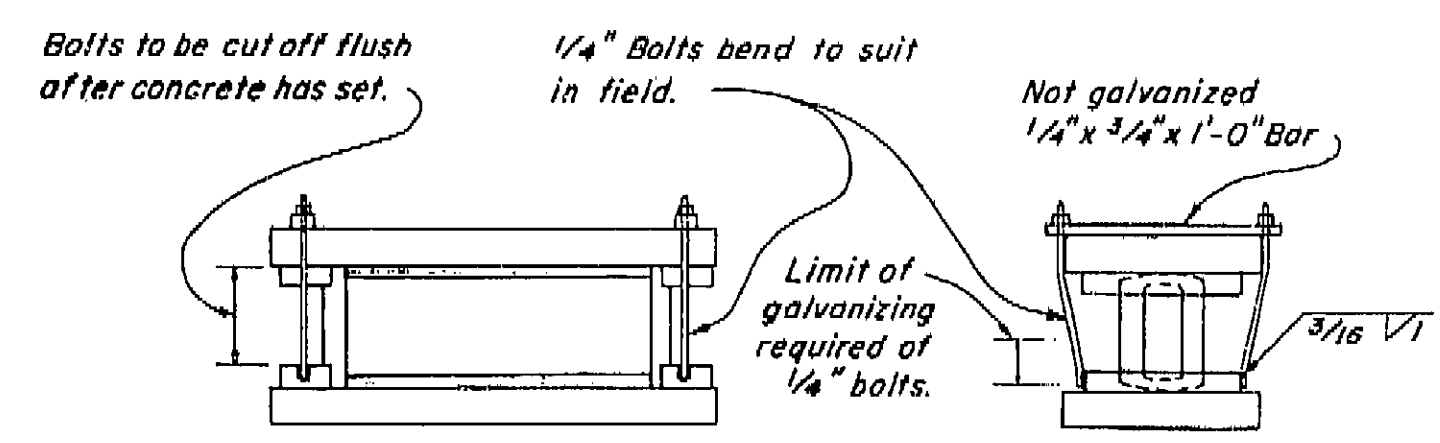
END VIEW OF ROCKER



10x22" FIXED BEARING ASSEMBLY



10x30" EXPANSION BEARING ASSEMBLY



DETAIL OF ERECTION BOLTS

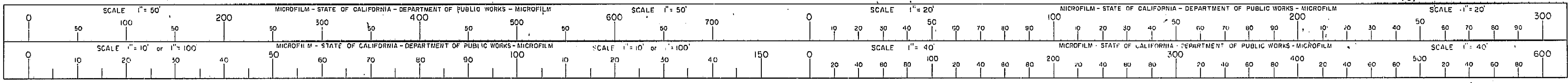
NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

Note: This sheet has been altered from the standard.

BRIDGE DEPARTMENT DESIGN SECTION			
Project Designer: <i>[Signature]</i>			
Chief Designer: <i>[Signature]</i>			
DESIGN	BY: R.J. Jurgech 7/61	Checked: D.D. Sauer 8/61	Scale: 1/2" = 1'-0"
DETAILS	BY: H.M. Dahl 7/61	Checked: A.S. 7/61	
QUANTITIES	BY: H.M. Dahl 7/61	Checked: C. S. 7/61	
SPECIFICATIONS	BY: <i>[Signature]</i>	Checked: <i>[Signature]</i>	
Approved & Recommended by: <i>[Signature]</i> 8/22/61			

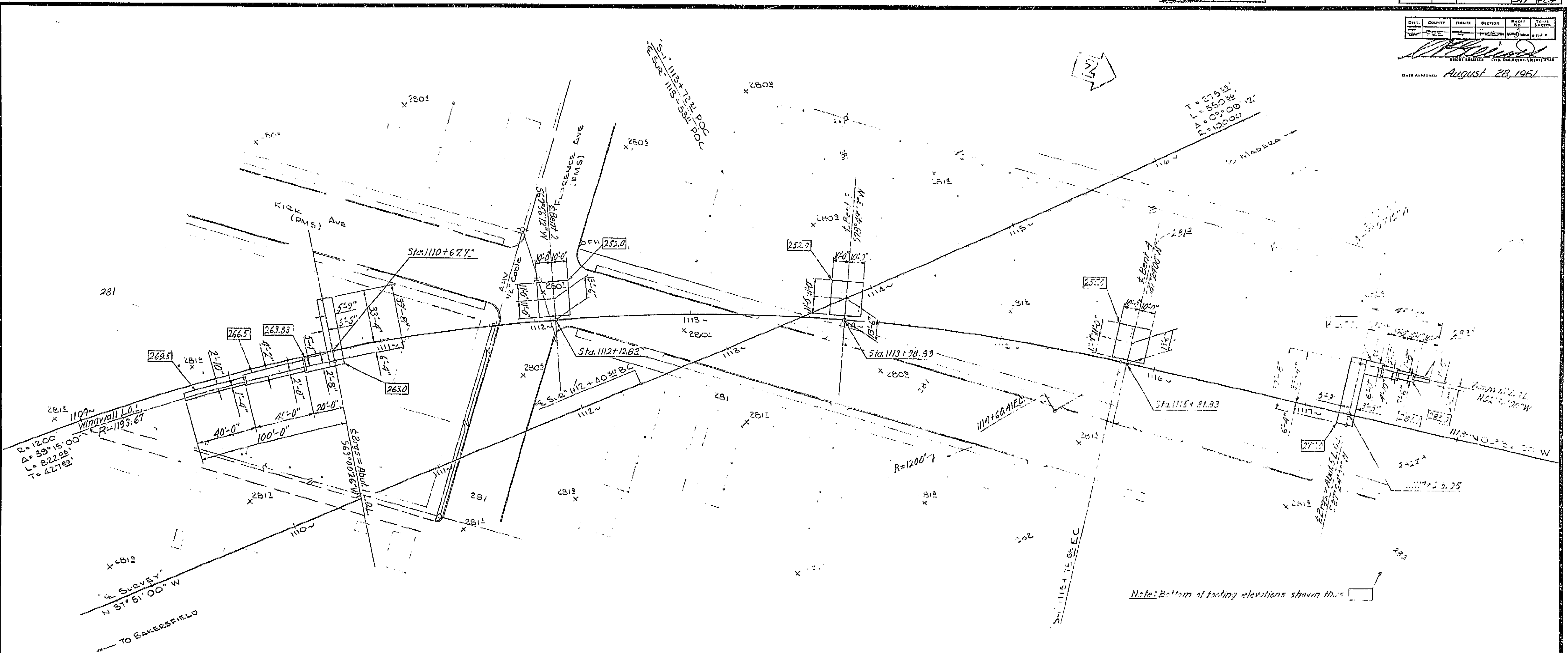
9/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
ROUTE 99 ON RAMP O.C.	
STANDARD DETAILS NO. 2 (BOX GIRDER)	
SCALE: As Noted	BRIDGE 42-216
FILE: X5-16-40	DRAWING C-42216-1A

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE: 12/12/61 SIGNATURE: *[Signature]* TITLE: *[Title]*





DATE APPROVED August 28, 1961



PM Lark  
FD-36 (Rev. 11-27-60) File # 44-38861-1000  
NE Corbally & Co. Fence Ave  
EL 28394

PM "Bluebird"  
FD-36 (Rev. 11-27-60) File # 44-38861-1000  
Florence & Ross Ave.  
EL 28394

**AS BUILT PLANS**  
Contract No. 62-6713C3  
Date Completed \_\_\_\_\_  
Document No. 60001062

BRIDGE DEPARTMENT <b>DESIGN SECTION</b> Section Supervisor <i>W. J. Johnston</i>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN <i>H. W. Jurach</i> <i>3/61</i> Checked <i>D. A. Smith</i> <i>3/61</i>		99 ROUTE 22 ON RAMP O.C.	
DETAILS <i>H. N. Dahl</i> <i>4/61</i> Checked <i>A. S. Dahl</i> <i>5/61</i>			
QUANTITIES <i>H. N. Dahl</i> <i>4/61</i> Checked <i>D. SHELTON</i> <i>4/61</i>		FOUNDATION PLAN SCALE 1" = 30' BRIDGE 42-216 FILE <i>E-92</i> DRAWING <i>C. 42216-3</i>	

LEVEL DATUM: USCGE  
FOR ALIGNMENT TIES SEE PG 101A-1  
CONTOURS AS OF B-60  
SITE PLAN FROM DISTRICT DATA.  
SURVEY BY DIST 112 DATE B-60  
DRAWN BY JS DATE B-60  
TRACED BY JS DATE 4-25-60

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-16-72 SIGNATURE James E. [Signature] TITLE SR RMO

